



## CERTIFICATE OF ANALYSIS

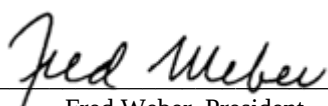
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 25345A EXP. DATE: 12/2017

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.3                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 66<br>Count at 45 minutes: 67<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
Hamilton, NJ 08691  
(609) 584-7677

  
Fred Weber, President

Date: January 6, 2016



## CERTIFICATE OF ANALYSIS

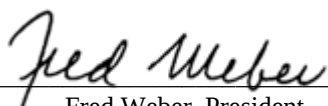
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 25355B EXP. DATE: 12/2017

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.3                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 66<br>Count at 45 minutes: 54<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Date: January 14, 2016



## CERTIFICATE OF ANALYSIS

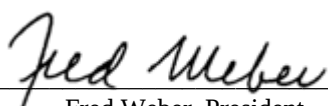
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 25365A EXP. DATE: 12/2017

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.4                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 57<br>Count at 45 minutes: 54<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Fred Weber, President

Date: January 26, 2016



## CERTIFICATE OF ANALYSIS

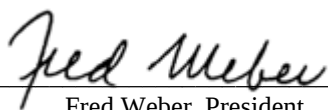
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26020A EXP. DATE: 01/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 61<br>Count at 45 minutes: 58<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Fred Weber, President

Date: February 10, 2016



## CERTIFICATE OF ANALYSIS

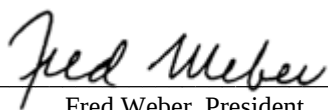
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26026A EXP. DATE: 01/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.1                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 60<br>Count at 45 minutes: 58<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Fred Weber, President

Date: February 22, 2016



## CERTIFICATE OF ANALYSIS

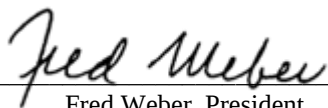
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26026B EXP. DATE: 01/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.1                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 62<br>Count at 45 minutes: 61<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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Fred Weber, President

Date: February 22, 2016



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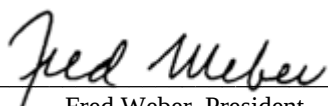
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26033A EXP. DATE: 02/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 56<br>Count at 45 minutes: 52<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Fred Weber, President

Date: February 25, 2016



## CERTIFICATE OF ANALYSIS

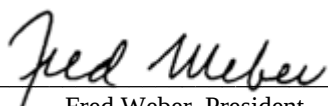
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26040A EXP. DATE: 02/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 58<br>Count at 45 minutes: 68<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Fred Weber, President

Date: March 3, 2016



## CERTIFICATE OF ANALYSIS

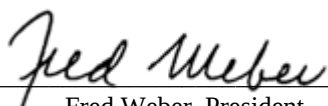
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26049A EXP. DATE: 02/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 61<br>Count at 45 minutes: 72<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Fred Weber, President

Date: March 16, 2016



## CERTIFICATE OF ANALYSIS

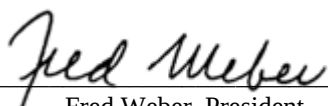
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26054A EXP. DATE: 02/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.4                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 75<br>Count at 45 minutes: 70<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Fred Weber, President

Date: March 23, 2016



## CERTIFICATE OF ANALYSIS

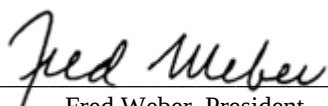
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26061A EXP. DATE: 03/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 61<br>Count at 45 minutes: 64<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Fred Weber, President

Date: April 4, 2016



## CERTIFICATE OF ANALYSIS

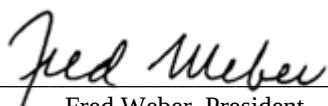
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26068A EXP. DATE: 03/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.3                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 50<br>Count at 45 minutes: 68<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
Hamilton, NJ 08691  
(609) 584-7677

  
Fred Weber, President

Date: April 5, 2016



## CERTIFICATE OF ANALYSIS

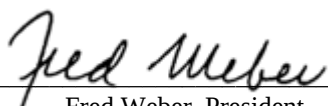
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26082A EXP. DATE: 03/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 58<br>Count at 45 minutes: 54<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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Fred Weber, President

Date: April 19, 2016



## CERTIFICATE OF ANALYSIS

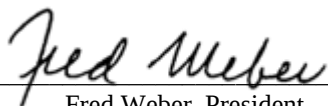
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26082R EXP. DATE: 03/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 62<br>Count at 45 minutes: 56<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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Fred Weber, President

Date: April 19, 2016



## CERTIFICATE OF ANALYSIS

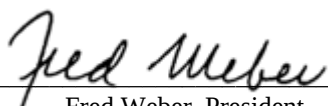
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26083A EXP. DATE: 03/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 49<br>Count at 45 minutes: 65<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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Fred Weber, President

Date: April 19, 2016



## CERTIFICATE OF ANALYSIS

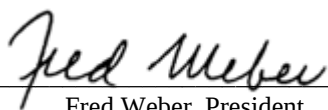
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26103B EXP. DATE: 04/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.3                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 60<br>Count at 45 minutes: 60<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Fred Weber, President

Date: April 19, 2016



## CERTIFICATE OF ANALYSIS

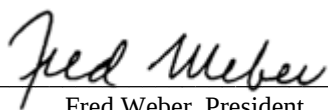
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26110A EXP. DATE: 04/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 66<br>Count at 45 minutes: 60<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Fred Weber, President

Date: May 17, 2016



## CERTIFICATE OF ANALYSIS

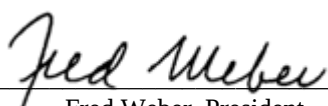
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26117A EXP. DATE: 04/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.3                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 43<br>Count at 45 minutes: 47<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
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Fred Weber, President

Date: May 25, 2016



## CERTIFICATE OF ANALYSIS

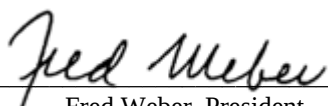
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26125A EXP. DATE: 05/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.1                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 68<br>Count at 45 minutes: 72<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
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Fred Weber, President

Date: June 9, 2016



## CERTIFICATE OF ANALYSIS

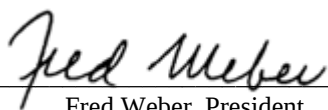
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26131A EXP. DATE: 05/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.1                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 45<br>Count at 45 minutes: 58<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Fred Weber, President

Date: June 13, 2016



## CERTIFICATE OF ANALYSIS

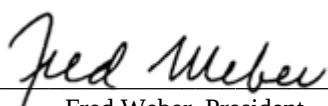
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26138B EXP. DATE: 05/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 65<br>Count at 45 minutes: 65<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
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Fred Weber, President

Date: June 20, 2016



## CERTIFICATE OF ANALYSIS

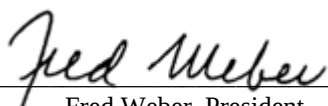
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26145A EXP. DATE: 05/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 83<br>Count at 45 minutes: 82<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
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Fred Weber, President

Date: June 21, 2016



## CERTIFICATE OF ANALYSIS

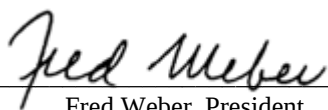
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26153A EXP. DATE: 06/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.1                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 56<br>Count at 45 minutes: 61<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
Hamilton, NJ 08691  
(609) 584-7677

  
Fred Weber, President

Date: June 30, 2016



## CERTIFICATE OF ANALYSIS

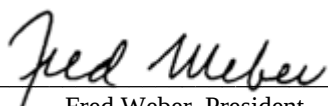
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26160A EXP. DATE: 06/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 43<br>Count at 45 minutes: 58<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
Hamilton, NJ 08691  
(609) 584-7677

  
Fred Weber, President

Date: July 12, 2016



## CERTIFICATE OF ANALYSIS

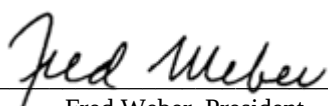
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26166A EXP. DATE: 06/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 70<br>Count at 45 minutes: 60<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
Hamilton, NJ 08691  
(609) 584-7677

  
Fred Weber, President

Date: July 13, 2016



## CERTIFICATE OF ANALYSIS

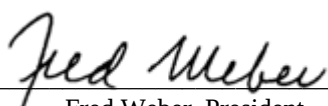
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26173B EXP. DATE: 06/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 49<br>Count at 45 minutes: 56<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
Hamilton, NJ 08691  
(609) 584-7677

  
Fred Weber, President

Date: July 20, 2016



## CERTIFICATE OF ANALYSIS

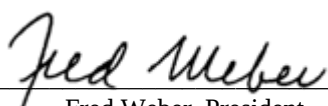
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26180A EXP. DATE: 06/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 46<br>Count at 45 minutes: 50<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
Hamilton, NJ 08691  
(609) 584-7677

  
Fred Weber, President

Date: August 10, 2016



## CERTIFICATE OF ANALYSIS

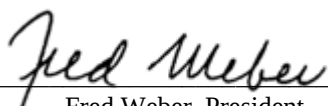
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26188A EXP. DATE: 07/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.3                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 54<br>Count at 45 minutes: 53<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
Hamilton, NJ 08691  
(609) 584-7677

  
Fred Weber, President

Date: August 16, 2016



## CERTIFICATE OF ANALYSIS

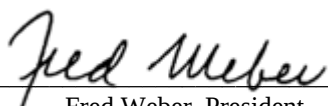
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26194A EXP. DATE: 07/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 49<br>Count at 45 minutes: 60<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
Hamilton, NJ 08691  
(609) 584-7677

  
Fred Weber, President

Date: August 16, 2016



## CERTIFICATE OF ANALYSIS

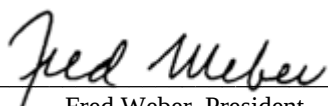
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26200A EXP. DATE: 07/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.1                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 54<br>Count at 45 minutes: 56<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
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(609) 584-7677

  
Fred Weber, President

Date: August 16, 2016



## CERTIFICATE OF ANALYSIS

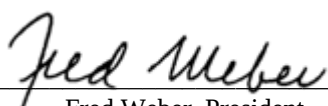
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26208A EXP. DATE: 07/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.1                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 58<br>Count at 45 minutes: 57<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | $<1 \times 10^{-6}$               | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
Hamilton, NJ 08691  
(609) 584-7677

  
Fred Weber, President

Date: August 16, 2016

## CERTIFICATE OF ANALYSIS

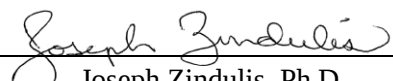
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
 CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26214A EXP. DATE: 08/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 43<br>Count at 45 minutes: 46<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
Hamilton, NJ 08691  
(609) 584-7677

  
 Joseph Zindulis, Ph.D.  
 Production Manager  
September 8, 2016



WEBER SCIENTIFIC

## CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26222A EXP. DATE: 08/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.3                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 45<br>Count at 45 minutes: 44<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

Made By:  
Weber Scientific  
2732 Kuser Road  
Hamilton, NJ 08691  
(609) 584-7677

Joseph Zindulis, Ph.D.  
Production Manager

September 13, 2016

## CERTIFICATE OF ANALYSIS

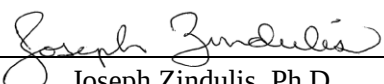
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
 CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26229A EXP. DATE: 08/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 66<br>Count at 45 minutes: 75<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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 Joseph Zindulis, Ph.D.  
 Production Manager  
 September 15, 2016

**CERTIFICATE OF ANALYSIS**

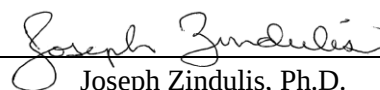
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26235A EXP. DATE: 08/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.3                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 63<br>Count at 45 minutes: 85<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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September 28, 2016

## CERTIFICATE OF ANALYSIS

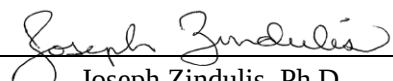
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
 CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26244A EXP. DATE: 08/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 74<br>Count at 45 minutes: 68<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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## CERTIFICATE OF ANALYSIS

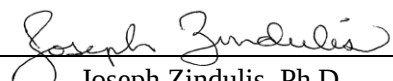
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
 CATALOG No. 3127-29    VOLUME (ml) 99    LOT No. 26250A    EXP. DATE: 09/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 56<br>Count at 45 minutes: 73<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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October 19, 2016

## CERTIFICATE OF ANALYSIS

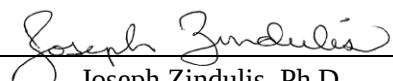
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
 CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26257A EXP. DATE: 09/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.1                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 47<br>Count at 45 minutes: 48<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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## CERTIFICATE OF ANALYSIS

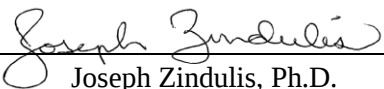
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
 CATALOG No. 3127-29    VOLUME (ml) 99    LOT No. 26263A    EXP. DATE: 09/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.3                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 80<br>Count at 45 minutes: 65<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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October 21, 2016

## CERTIFICATE OF ANALYSIS

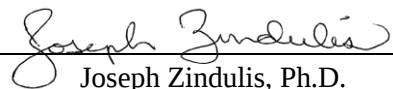
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
 CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26271A EXP. DATE: 09/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.1                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 67<br>Count at 45 minutes: 67<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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October 27, 2016

## CERTIFICATE OF ANALYSIS

PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>

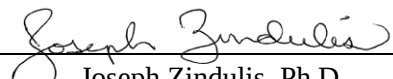
CATALOG No. 3127-29    VOLUME (ml) 99    LOT No. 26284B    EXP. DATE: 10/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.4                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 63<br>Count at 45 minutes: 68<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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## CERTIFICATE OF ANALYSIS

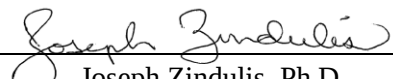
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
 CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26292A EXP. DATE: 10/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.3                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 60<br>Count at 45 minutes: 70<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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November 17, 2016



## CERTIFICATE OF ANALYSIS

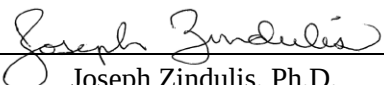
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26307A EXP. DATE: 11/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.2                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 47<br>Count at 45 minutes: 47<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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December 15, 2016





## CERTIFICATE OF ANALYSIS

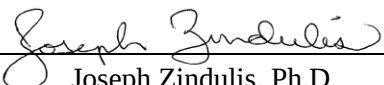
PRODUCT DESCRIPTION: Weber Scientific Phosphate Butterfield Buffer with MgCl<sub>2</sub>  
CATALOG No. 3127-29 VOLUME (ml) 99 LOT No. 26320A EXP. DATE: 11/2018

| TEST                            | RESULTS                                                     | SPECIFICATION                     | METHOD                                                |
|---------------------------------|-------------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| pH @ 25° C                      | 7.3                                                         | 7.2 +/- 0.2                       | WS cSOP 8.4                                           |
| TOXICITY*                       | Count at 0 minutes: 53<br>Count at 45 minutes: 61<br>PASSES | < 20% DECREASE                    | WS cSOP 24.3; 54.0                                    |
| STERILITY                       | PASSES                                                      | <1 x10 <sup>-6</sup>              | AAMI** VALIDATED<br>Gamma Irradiated<br>(Certificate) |
| FILL VOLUME                     | CONFORMS                                                    | LABEL +/- 2 ml                    | WS cSOP 9.4; 13.4                                     |
| COLOR                           | CONFORMS                                                    | CLEAR<br>NO FOREIGN<br>MATTER     | VISUAL<br>WS cSOP 33.2                                |
| PACKAGE<br>INTEGRITY<br>SHIPPER | CONFORMS                                                    | NO VISIBLE<br>DAMAGE TO<br>CARTON | VISUAL<br>WS cSOP 15.3                                |
| PACKAGE<br>INTEGRITY<br>BOTTLE  | CONFORMS                                                    | NO LEAKING                        | WS cSOP 14.4                                          |
| PACKAGE<br>MARKINGS             | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5                                           |
| BOTTLE<br>MARKINGS              | CONFORMS                                                    | CONFORMS<br>TO STANDARD           | WS cSOP 5.5; 6.4; 38.2                                |

\*TEST PERFORMED AT COMMERCIAL LAB: New Jersey Laboratories.

\*\*Association for the Advancement of Medical Instrumentation validation method ANSI/AAMI/ISO 11137-1994; microbiological testing method AAMI TIR 8-1991.

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