

Buffer Formulations

Instructions

Below is a list of all non-proprietary buffer formulations if you choose to create your own buffers from raw chemicals. Agdia recommends making all buffers fresh each day. If you choose to store buffers for more than one day, instructions on storage are below. In choosing to store buffers for more than one day, buffers may precipitate, foster growth, or become contaminated. You assume this risk by storing your buffers for more than one day.

Chemicals can vary in purity level and lot-to-lot consistency from different vendors which can affect test results. You assume this risk when purchasing chemicals separately to make buffers per these formulations.

Pre-mixed buffer packs may also be purchased from Agdia. We recommend using our buffer packs since Agdia evaluates suppliers to reduce the risk of inconsistent test performance attributed to variation in raw material quality.

<p>Carbonate Coating Buffer (1X) 1. Dissolve components in 800 mL of water 2. Adjust pH to 9.6 3. Fill to 1000 mL of water 4. Store at 2 - 8 °C</p>	<p>Sodium carbonate (anhydrous) 1.59 g Sodium bicarbonate 2.93 g Sodium azide 0.20 g</p>
<p>General Extract Buffer (GEB) (1X) 1. Dissolve components in 800 mL of 1X PBST 2. Adjust pH to 7.4 3. Fill to 1000 mL of 1X PBST 4. Store at 2 - 8 °C</p>	<p>Sodium sulfite (anhydrous) 1.30 g Polyvinylpyrrolidone (PVP) MW 24-40,000 20.00 g Powdered egg (chicken) albumin, Grade II 2.00 g Tween-20 20.00 g Sodium azide (optional) (only for storage) 0.20 g</p>
<p>ECI Buffer (1X) 1. Dissolve components in 800 mL of 1X PBST 2. Adjust pH to 7.4 3. Fill to 1000 mL of 1X PBST 4. Store at 2 - 8 °C</p>	<p>Bovine serum albumin (BSA) 2.00 g Polyvinylpyrrolidone (PVP) MW 24-40,000 20.00 g Sodium azide 0.20 g</p>
<p>PBST Buffer (Wash Buffer) (1X) 1. Dissolve components in 800 mL of water 2. Adjust pH to 7.4 3. Fill to 1000 mL of water 4. Store at 18 - 30 °C</p>	<p>Sodium chloride 8.00 g Sodium phosphate, dibasic (anhydrous) 1.15 g Potassium phosphate, monobasic (anhydrous) 0.20 g Potassium chloride 0.20 g Tween-20 0.50 g</p>
<p>PNP Buffer (1X) 1. Dissolve components in 800 mL of water 2. Adjust pH to 9.8 with hydrochloric acid 3. Fill to 1000 mL of water 4. Store at 2 - 8 °C</p>	<p>Magnesium chloride hexahydrate 0.10 g Sodium azide 0.20 g Diethanolamine 97.00 mL</p>



Agdia, Inc.
 52642 County Road 1
 Elkhart, IN 46514
 574-264-2014 / 800-622-4342
www.agdia.com / info@agdia.com

msp008
 Revised: 04/16/2019
 Page 1 of 2

<p>PBS Buffer (1X) 1. Dissolve components in 930 mL of water 2. Adjust pH to 7.4 3. Fill to 1000 mL of water 4. Store at 18 - 30 °C</p>	<table> <tr><td>Sodium phosphate, dibasic (anhydrous)</td><td>1.15 g</td></tr> <tr><td>Potassium chloride</td><td>0.20 g</td></tr> <tr><td>Potassium phosphate, monobasic (anhydrous)</td><td>0.20 g</td></tr> <tr><td>Sodium chloride</td><td>8.00 g</td></tr> <tr><td>Sodium azide (optional) (only for storage)</td><td>0.20 g</td></tr> </table>	Sodium phosphate, dibasic (anhydrous)	1.15 g	Potassium chloride	0.20 g	Potassium phosphate, monobasic (anhydrous)	0.20 g	Sodium chloride	8.00 g	Sodium azide (optional) (only for storage)	0.20 g
Sodium phosphate, dibasic (anhydrous)	1.15 g										
Potassium chloride	0.20 g										
Potassium phosphate, monobasic (anhydrous)	0.20 g										
Sodium chloride	8.00 g										
Sodium azide (optional) (only for storage)	0.20 g										
<p>Indirect Sample Extraction Buffer (1X) 1. Dissolve components in 800 mL of water 2. Adjust pH to 9.6 3. Fill to 1000 mL of water 4. Store at 2 - 8 °C</p>	<table> <tr><td>Sodium carbonate (anhydrous)</td><td>1.59 g</td></tr> <tr><td>Sodium bicarbonate</td><td>2.93 g</td></tr> <tr><td>Polyvinylpyrrolidone (PVP) MW 24-40,000</td><td>20.0 g</td></tr> <tr><td>Sodium azide (optional) (only for storage)</td><td>0.20 g</td></tr> </table>	Sodium carbonate (anhydrous)	1.59 g	Sodium bicarbonate	2.93 g	Polyvinylpyrrolidone (PVP) MW 24-40,000	20.0 g	Sodium azide (optional) (only for storage)	0.20 g		
Sodium carbonate (anhydrous)	1.59 g										
Sodium bicarbonate	2.93 g										
Polyvinylpyrrolidone (PVP) MW 24-40,000	20.0 g										
Sodium azide (optional) (only for storage)	0.20 g										
<p>MEB Extraction Buffer (1X) 1. Dissolve components in 200 mL of 1X PBST 2. Stir for 30 minutes 3. Adjust pH to 7.4 4. Fill to 250 mL of 1X PBST 5. Store at 2 - 8 °C</p>	<table> <tr><td>Tween-20</td><td>1.25 g</td></tr> <tr><td>Nonfat dried milk</td><td>1.00 g</td></tr> </table>	Tween-20	1.25 g	Nonfat dried milk	1.00 g						
Tween-20	1.25 g										
Nonfat dried milk	1.00 g										
<p>ECM Buffer (1X) 1. Dissolve components in 90 mL of 1X PBST 2. Stir for 30 minutes 3. Adjust pH to 7.4 4. Fill to 100 mL of 1X PBST 5. Store at 2 - 8 °C</p>	<table> <tr><td>Nonfat dried milk</td><td>0.40 g</td></tr> </table>	Nonfat dried milk	0.40 g								
Nonfat dried milk	0.40 g										
<p>MPBS (1X) (BRA Blocking Buffer) 1. Dissolve components in 18 mL of 1X PBS 2. Stir for 30 minutes 3. Fill to 20 mL of 1X PBS 4. Store at 2 - 8 °C</p>	<table> <tr><td>Nonfat dried milk</td><td>1.00 g</td></tr> </table>	Nonfat dried milk	1.00 g								
Nonfat dried milk	1.00 g										
<p>MPBST (1X) (BRA Detection and EC Diluent) 1. Dissolve components in 18 mL of 1X PBST 2. Stir for 30 minutes 3. Fill to 20 mL of 1X PBST 4. Store at 2 - 8 °C</p>	<table> <tr><td>Nonfat dried milk</td><td>0.50 g</td></tr> </table>	Nonfat dried milk	0.50 g								
Nonfat dried milk	0.50 g										

