

***Streptococcus pyogenes* Arginine Deiminase (arcA)**

Antigen Specification

Product Number: 44500

Description:

Streptococcus pyogenes arginine deiminase (arcA; EC 3.5.3.6).
Recombinant antigen for research use or manufacturing only.

Immunological function:

Binds IgG-, IgM, and IgA-type human antibodies.

Origin:

Recombinant. Expressed in *E. coli* bacterial cells.

Expression construct:

Full-length cDNA coding for *Streptococcus pyogenes* arginine deiminase (arcA) fused to a deca-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 80%); Western blot with monoclonal anti-penta-His antibody.

Calculated molecular weight:

47,829 Dalton

Calculated isoelectric point:

pH 5.40

Endotoxin content:

Tested by LAL (Limulus Amoebocyte Lysate) chromogenic endotoxin assay.

Immunological tests/Functionality:

Immunodot test with positive/negative sera panels.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent.
Storage conditions: -70°C or below.
Repeated freeze/thaw cycles should be avoided.

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