

Bioassayplus Inc.

4510 Rhodes Dr. Windsor, Canada N8X 5K5

Certificate of Analysis

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product name: Recombinant *O. tsutsugamushi* outer membrane protein (r56)

Catalog #: Scrub Typhus-r56

Description: Scrub typhus is caused by the biting of trombiculid mites which contains gram-negative, intracellular growing bacterium, *Orientia tsutsugamushi*. Trombiculid mites is found in heavy scrub vegetation.

Major outer membrane protein (r56) of *Orientia tsutsugamushi* is found as an important serological marker to diagnose *O. tsutsugamushi* infection, it has been used in the rapid lateral flow immunoassay to test its specific antibody caused by its infection.

Recombinant full length OMP r56 protein from *O. tsutsugamushi* has been expressed containing N-terminal His tag with 45kDa molecular size and 95% in purity.

Source: *E. coli*

Format: Purified, Liquid

Purification: >95% pure (10% SDS-PAGE, Coomassie staining) and proprietary chromatographic technique

Concentration: 1.2mg/ml (Lot 072024)

Buffer: PBS with 25mM K₂CO₃

Applications: Immunoassay

Storage: Upon receipt, store at -20°C. Avoid multiple freeze/thaw cycles



10% SDS-PAGE,
45kDa, 8-22-2024