

Treponema pallidum p15 (partial, His-tagged) - Purified

Catalog No.: AR10495PU-L

Quantity: 1 mg

Background: Treponema pallidum is a gram-negative spirochaete bacterium and is considered to be metabolically crippled. There are at least four known subspecies: T. pallidum pallidum, T. pallidum pertenuis, T. pallidum carateum and T. pallidum endemicum. The helical structure of T. pallidum pallidum allows it to move in a corkscrew motion through viscous mediums such as mucus. Treponema pallidum sub sp. pallidum has one of the smallest bacterial genomes at 1.14 million base pairs (Mb) and has limited metabolic capabilities, reflecting its adaptation through genome reduction to the rich environment of mammalian tissue.

Source: E. coli

Format: **Purity:** >95% pure as determined by SDS- PAGE.

Purification Method: Treponema Pallidum protein was purified by proprietary chromatographic technique.

Buffer System: 70mM Tris-HCl pH 8.0, 50mM NaCl, 50% Glycerol, 1.5 M Urea

Applications: Treponema Pallidum protein is suitable for ELISA and Western blots, excellent antigen for detection of Trp. Pallidum with minimal specificity problems. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Description: The *E.coli* derived recombinant 6xHis tag fusion protein is a multimer having a Molecular Mass of 48kDa and contains the Trp. Pallidum p15 immunodominant regions.

Fusion: Treponema Pallidum protein contains 6 histidines fused at the C- Terminus.

Specificity: Immunoreactive with sera of Trp. Pallidum infected individuals.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.