

Treponema pallidum TmpA (beta-Gal tagged) - Purified

Catalog No.: AR10496PU-S

Quantity: 0.1 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 pertenue, 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:** >90% pure as determined by 10% PAGE (coomassie staining).
Purification Method: Treponema Pallidum protein was purified by proprietary chromatographic technique.
Buffer System: 8M Urea, 20mM Tris-HCl pH-8 and 10mM B-ME

Applications: Treponema Pallidum protein binds to murine anti-TmpA protein monoclonal antibodies and Treponema pallidum converted Human Serum polyclonal antibodies in ELISA and Western Elisa. Dot Blots and Lateral Flow immunochromatographic diagnostics test. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Description: The *E.coli* derived recombinant protein contains the T.Pallidum TmpA immunodominant regions. The protein contains beta-Galactosidase (114 kDa) fused at the N- terminus.
Specificity: Immunoreactive with sera of T.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.