

## Treponema pallidum p17 (His-tagged) - Purified

<b>Catalog No.:</b>	AR10500PU-N
<b>Quantity:</b>	0.5 mg
<b>Background:</b>	Treponema pallidum is a gram-negative spirochaete bacterium and is considered to be metabolically crippled. There are at least four known subspecies: <i>T. pallidum pallidum</i> , <i>T. pallidum pertenuis</i> , <i>T. pallidum carateum</i> and <i>T. pallidum endemicum</i> . The helical structure of <i>T. pallidum pallidum</i> allows it to move in a corkscrew motion through viscous mediums such as mucus. <i>Treponema pallidum</i> sub sp. <i>pallidum</i> 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.
<b>Source:</b>	<i>E. coli</i>
<b>Format:</b>	<b>Purity:</b> >95% pure as determined by 10% PAGE (coomassie staining). <b>Purification Method:</b> <i>Treponema Pallidum</i> protein was purified by proprietary chromatographic technique. <b>Buffer System:</b> 70mM Tris-HCl pH 8.0, 50mM NaCl, 50% Glycerol, 1.5M Urea
<b>Applications:</b>	<i>Treponema Pallidum</i> protein is suitable for ELISA and Western blots, excellent antigen for detection of Trp. <i>Pallidum</i> with minimal specificity problems. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Description:</b>	The <i>E. coli</i> derived recombinant protein is fused at N-terminus with <i>6xHis tag</i> and contains the Trp. <i>Pallidum</i> p17 immunodominant regions. <b>Specificity:</b> Immunoreactive with sera of Trp. <i>Pallidum</i> infected individuals.
<b>Storage:</b>	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.