

Recombinant Treponema pallidum p47

Catalog No.	CSI15899A	Quantity:	100 µg
	CSI15899B		0.5 mg
	CSI15899C		1.0 mg

Description: 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.

The *E. Coli* derived recombinant protein contains the T. Pallidum p47 immunodominant regions. The protein contains beta-galactosidase (114 kDa) fused at the N- terminus.

Source: *E. coli*

Formulation: 8 M urea + 2 0mM Tris-HCl, pH-8 and 10 mM B-ME.

Purity: Treponema Pallidum protein protein is >90% pure as determined by 10% PAGE (coomassie staining).

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

Specific Activity: Immunoreactive with sera of T. Pallidum infected individuals.

Applications: Treponema Pallidum protein is suitable for ELISA and Western blots, excellent antigen for detection of T. Pallidum with minimal specificity problems.

Storage & Stability: Treponema Pallidum although stable at 4°C for 1 week, should be stored below -18°C.

Please prevent freeze thaw cycles.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

