

Recombinant *Treponema pallidum* p41 Mosaic GST

Catalog No.	CSI15900A	Quantity:	100 µg
	CSI15900B		0.5 mg
	CSI15900C		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 outer membrane *T. Pallidum* p41 immunodominant regions. The protein is fused with a GST tag.

Source: *E. coli*

Formulation: 25 mM Tris-HCl pH-8 + 60 mM NaCl + 50% glycerol.

Purity: *Treponema Pallidum* 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* protein is shipped at ambient temperature. Upon arrival, Store at -20°C.
Stability: Five years frozen. One month in solution at room temperature.

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