

Active Recombinant Treponema pallidum p17 protein

Cat. No. p17-247 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Treponema pallidum p17 containing beta-galactosidase (114 kDa) fused at the N-terminus and T. Pallidum p17 immunodominant regions was expressed in E. coli.
Species	Treponema pallidum
Source	E.coli
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 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.
Form	8M urea, 20mM Tris-HCl pH-8 and 10mM B-ME.
Bio-activity	Immunoreactive with sera of Trp. Pallidum infected individuals.
Purity	Treponema Pallidum protein is >90% pure as determined by 10% PAGE (coomassie staining).
Applications	Treponema Pallidum protein is suitable for ELISA and Western blots, excellent

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antigen for detection of Trp. Pallidum with minimal specificity problems.

Storage

Treponema Pallidum protein although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

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