
Product Data Sheet

Cat # RP-1445 Recombinant *Treponema pallidum* p41 Mosaic

Size: 100 ug

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.

USAGE:

This item is for LABORATORY RESEARCH USE ONLY.

RP-1445 050312

SOURCE:

Treponema Pallidum protein is suitable for ELISA and Western blots, excellent antigen for detection of *T. Pallidum* with minimal specificity problems. *Treponema Pallidum* protein is >90% pure as determined by 10% PAGE (coomassie staining). Immunoreactive with sera of *T. Pallidum* infected individuals.

**APPLICATION AND SUGGESTED
DILUTIONS:**

Treponema Pallidum protein is suitable for ELISA and Western blots, excellent antigen for detection of *T. Pallidum* with minimal specificity problems. *Treponema Pallidum* protein is >90% pure as determined by 10% PAGE (coomassie staining). Users must optimize the appropriate concentration and conditions for each assay.

STORAGE & STABILITY:

Treponema Pallidum protein is shipped at ambient temperature. Upon arrival, Store at -20°C. Five years frozen. One month in solution at room temperature. If supplied in powder then reconstitute it in 100ul water for 1mg/mL stock and store in liquied at 4oC for ~ 1week or aliquots in suitable size and store at -20oC for long term storage.

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