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Product Data Sheet

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Cat # RP-1443

Recombinant Treponema pallidum p41

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 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. Immunoreactive with sera of T. Pallidum infected individuals.

**SOURCE:**

The E.coli derived recombinant protein contains the outer membrane T. Pallidum p41 immunodominant regions. The protein is fused with a Beta-galactosidase tag. 10mM Tris-HCl pH8.0, 1mM EDTA, 1mM DTT and 8M urea.

**APPLICATION AND SUGGESTED DILUTIONS:**

Treponema pallidum 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 liquid at 4°C for ~ 1week or aliquots in suitable size and store at -20°C for long term storage.

**USAGE:**

This item is for LABORATORY RESEARCH USE ONLY.

RP-1443

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