



Product Datasheet

Product Name Treponema pallidum p15 (Partial) Recombinant, His Tag

Cata No CB501238

Source

Synonyms

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. The E.Coli derived recombinant 6xHis tag fusion protein is a multimer having a molecular mass of 48kDa and contains the Trp. Pallidum p15 immunodominant regions.

Purity

Treponema Pallidum protein is >95% pure as determined by SDS- PAGE.

Formulation

70mM Tris-HCl pH 8.0, 50mM NaCl, 50% Glycerol, 1.5 M Urea.

Stability

Five years frozen. One month in solution at room temperature.

Applications

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