



Product Datasheet

Product Name Treponema pallidum p41 Recombinant

Cata No CB501133

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 protein contains the outer membrane T.Pallidum p41 immunodominant regions. The protein is fused with a Beta-galactosidase tag.

Purity

Treponema pallidum protein is >90% pure as determined by 10% PAGE (coomassie staining).

Formulation

10mM Tris-HCl pH8.0, 1mM EDTA, 1mM DTT and 8M urea.

Stability

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

Applications

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