



Product Datasheet

Product Name Treponema pallidum p47 Recombinant

Cata No CB501134

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 subsp. 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 T.Pallidum p47 immunodominant regions. The protein contains beta-galactosidase (114 kDa) fused at the N- terminus.

Purity

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

Formulation

8M urea, 20mM Tris-HCl pH-8 and 10mM B-ME.

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 T.Pallidum with minimal specificity problems.