



Product Datasheet

Product Name Treponema pallidum p47 (Partial) Recombinant

Cata No CB501240

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 is fused at the N- terminus with beta-galactosidase (114 kDa) and contains the T.Pallidum p47 immunodominant regions.

Purity

Treponema Pallidum protein is >95% pure as determined by 10% PAGE (coomassie staining).

Formulation

70mM Tris-HCl pH8.0, 50mM NaCl, 50% Glycerol and 1.5M 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 T.Pallidum with minimal specificity problems.