

32-13602: Treponema p47 47.7kDa

Alternative Name :

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.

Description

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

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.

Recombinant Treponema p47 produced in E.coli is a non-glycosylated polypeptide chain having a molecular mass of 47.7kDa and fused to a His tag at N-terminus.

Product Info

Amount :	100 µg / 0.5 mg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	Lyophilized from 1mg/ml in 20mM sodium carbonate pH-10. It is recommended to reconstitute the lyophilized Treponema p47 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Storage condition :	Treponema p47 although stable at room temperature for 4 weeks, should be stored below -18°C. Please prevent freeze thaw cycles.