
Product Data Sheet

Product Name: Treponema p47 47.7kDa
Cat. No.: GP25378
Batch No.: 1

Product Data

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|---------------------|-------|--------------------|-----------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped at Room temp. |

Solubility 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.

Formulation Lyophilized from 1mg/ml in 20mM sodium carbonate pH-10.

Introduction

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.

Stability

Treponema p47 although stable at room temperature for 4 weeks, should be stored below -18°C . Please prevent freeze thaw cycles.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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