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## Product Data Sheet

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Product Name: Treponema TmpA 45kDa

Cat. No.: GP25382

Batch No.: 1

### Product Data

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

Solubility It is recommended to reconstitute the lyophilized Treponema TmpA in sterile 18M-cm H<sub>2</sub>O 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 TmpA although stable at room temperature for 4 weeks, should be stored below -18°C . Please prevent freeze thaw cycles.

### Background

Recombinant Treponema TmpA produced in E.coli is a non-glycosylated polypeptide chain having a molecular mass of 45kDa 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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