

## T.pallidum p41

**Description:** The E.coli derived recombinant protein contains the outer membrane T.Pallidum p41 immunodominant regions. The protein is fused with a Beta-galactosidase tag.

**Catalog #:** TRPS-249

**Purity:** Treponema pallidum protein is >90% pure as determined by 10% PAGE (coomassie staining).

For research use only.

**Purification Method:**

Treponema pallidum protein was purified by proprietary chromatographic technique.

**Specificity:**

Immunoreactive with sera of T.Pallidum infected individuals.

**Formulation:**

10mM Tris-HCl pH8.0, 1mM EDTA, 1mM DTT and 8M urea.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Applications:**

Treponema pallidum is suitable for ELISA and Western blots, excellent antigen for detection of T. Pallidum with minimal specificity problems.

**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.

**Storage:**

T.pallidum p41 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

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