

## Treponema pallidum p41 Mosaic - Purified

**Catalog No.:** AR10499PU-L

**Quantity:** 1 mg

**Concentration:** 1.0 mg/ml

**Background:** *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 pertenuis*, *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.

**Source:** *E. coli*

**Format:** **Purity:** >90% pure as determined by 10% PAGE (coomassie staining).  
**Purification Method:** Sepharose-Derived Purification.  
**Buffer System:** 25 mM Tris-HCl pH 8.0, 60mM NaCl, 50% Glycerol

**Applications:** Antigen in ELISA and Western blots, excellent antigen for detection of *Tr.pallidum* with minimal specificity problems.  
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Description:** The *E.coli* derived recombinant protein contains the *Tr.pallidum* p41 immunodominant regions.

**Specificity:** Immunoreactive with sera of *Tr.pallidum* -infected individuals.

**Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.