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## Product Data Sheet

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Product Name: TKT  
Cat. No.: GP24843  
Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	S.Pyogenes tkt is supplied in 20mM HEPES buffer pH-7.6, 250mM NaCl and 20% glycerol.		

### Introduction

Streptococcus pyogenes is the cause of many significant human diseases, ranging from mild superficial skin infections to life-threatening systemic diseases. Infections usually begin in the throat or skin. The most conspicuous sign is a strawberry-like rash. Instances of mild S. pyogenes infections include pharyngitis (strep throat) and localized skin infection (impetigo). The invasion of S. pyogenes and its multiplication in the fascia can lead to necrotizing fasciitis, a life-threatening condition requiring surgery. Throat infections linked with the release of certain toxins lead to scarlet fever. Other toxigenic S. pyogenes infections may lead to potentially life-threatening streptococcal toxic shock syndrome. S. pyogenes may also cause disease in the form of post-infectious "nonpyogenic" (not associated with local bacterial multiplication and pus formation) syndromes. These autoimmune-mediated complications develop from a small percentage of infections and comprise rheumatic fever and acute post infectious glomerulonephritis. Acute glomerulonephritis (inflammation of the renal glomerulus) can arise from streptococcal pharyngitis or skin infection. The Streptococcus pyogenes bacterium is acutely sensitive to penicillin, even though certain strains have developed resistance to macrolides, tetracyclines, and clindamycin.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

### Background

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Recombinant TransketolaseStreptococcus Pyogenes in E.coli is a non-glycosylated, polypeptide chain having a calculated molecular mass of 78,837 Dalton. S.Pyogenes tkt is expressed with a 10xHis tag at N-terminus and purified by proprietary chromatographic techniques.

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