

## ENZYMES

# Recombinant Deoxyribonuclease B

**ORIGIN** *Escherichia coli*

**CAT#** 70-6174-01

**EC #** 3.1.21.1

### ► SPECIFICATIONS

<b>Appearance</b>	Frozen liquid
<b>Protein Concentration</b>	>1 mg/mL
<b>Purity (SDS PAGE)</b>	Major band ≥ 97% at 21-31kD Minor band ≤ 3% at 17-25kD
<b>pH</b>	6.9 - 7.1

### ► CLINICAL SIGNIFICANCE

Deoxyribonuclease B (DNase B) is one of several extracellular enzymes produced by group A beta-hemolytic streptococci. Since DNase B is produced extensively by group A serotypes and is not produced in significant amounts by other serological groups (C and G), anti-DNase B is a reliable streptococcal antibody test for both skin and throat infections.

Testing for anti-DNase B assists in the diagnosis and management of patients with acute rheumatic fever, acute glomerulonephritis, Sydenham's chorea, scarlet fever, pharyngitis, and many other group A streptococcal based illnesses.

Unlike anti-streptolysin O (ASO), anti-DNase B is less susceptible to false positives caused by bacterial growth in the specimen, liver disease, and oxidation of the antigen. In determining the presence of group A streptococcal infection, it is highly recommended that ASO testing be performed in conjunction with anti-DNase B, especially when the ASO titer is borderline.

### ► APPLICATION

Used in the formulation of anti-DNase B assays which are used in the diagnosis of group A Streptococcal based illnesses.

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