

## IdeS protease from Streptocoocus pyogenes, Recombinant

Cat. No. NATE-1598

Lot. No. (See product label)

## Introduction

- **Description** IdeS protease digests IgG only at one specific site just below the hinge region, resulting in F(ab')2and Fcfragments. Since IdeS protease only cleaves at one specific site below the hinge region, there is no risk of over digestion if the incubation time is increased for several hours. IdeS protease digests IgG under physiological reaction conditions thus preserving the immunoreactivity. Best activity is obtained at 37°C but digestion can also be performed at room temperature using prolonged reaction time.
- *Synonyms* IdeS protease; FabRICATOR

## **Product Information**

Species	Streptocoocus pyogenes
Source	E.coli
Appearance	White to light yellow powder
Form	Lyophilized powder with no preservatives added
Purity	> 95% homogeneity as determined by SDS-PAGE analysis using Coomassie Blue detection.
Optimum pH	6.5-7.5
Buffer	Buffers tested for compatibility with IdeS protease digestion at different pH. Note that IdeS protease is irreversibly inactivated below pH 5.0. Digestion above pH 8.0 requires prolonged/optimized conditions. Phosphate buffer saline (PBS) 6.0 – 8.0 Tris buffer 7.0 – 8.0 MES buffer 5.5 – 6.5 HEPES buffer 7.0 – 8.0 Ammonium bicarbonate buffer 6.0 – 7.0 Sodium acetate buffer 6.0
Unit Definition	One unit digests > 95% of 1µg human IgG when incubated in 10 mM sodium phosphate, 137 mM NaCl, 2.7mM KCl pH 7.4 at 37°C for 30min.

## Storage and Shipping Information

Storage at -20°C

StabilityThe enzyme is reconstituted by addition of water and after reconstitution it is stable for 1 month at +4-<br/>8°C. The enzyme can be aliquoted and stored at -20°C for at least 6 months. The product is shipped at<br/>ambient temperature but should be stored at -20°C upon arrival.