Creative Enzymes®

Immobilized Pepsin (Agarose Resin)

Cat. No. NATE-1866

Lot. No. (See product label)

Introduction

Description	Immobilized Pepsin allows efficient generation of F(ab´)2 from IgG. Pepsin is a nonspecific endopeptidase that is active only at acid pH and irreversibly denatured at neutral or alkaline pH. Immobilized Pepsin is advantageous because the digestion can be immediately stopped by simply removing the gel from the IgG. Digestion by pepsin normally produces a F(ab´)2 fragment and numerous small peptides of the Fc portion. The resulting F(ab´)2 fragment is composed of two disulfide-connected Fab units. The Fc fragment is extensively degraded, and its small fragments can be separated from F(ab´)2 by dialysis, gel filtration or ion exchange chromatography.
Synonyms	Immobilized Pepsin

Product Information

Form	50% slurry containing 50% glycerol in 0.1M sodium acetate; pH 4.5, and 0.05% sodium azide as a preservative.
EC Number	EC 3.4.23.1
Refractive Index	1.61 (Predicted)
Density	~1.2 g/cm3 (Predicted)

Usage and Packaging

Package	5mL settled gel, contains sufficient material to generate F(ab´)2 fragments from up to 20 samples containing up to 10mg of IgG.

Storage and Shipping Information

Storage	Upon receipt store product at 4-8°C. Product is shipped at ambient temperature.