**α-1-6 Mannosidase**

**Description:** α-1-6 Mannosidase is a highly specific exoglycosidase that removes unbranched α-1-6 linked α-mannopyranosyl residues from oligosaccharides (1,2). When used in conjunction with α-1-2,3 Mannosidase, the α-1-6 Mannosidase will cleave α-1-6 Mannose residues from branched carbohydrate substrates.

**Note:** Concentration and Specificity Changes

**Certification of Analysis**

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Quality Controls

Glycosidase Assays: 80 units of α1-6 Mannosidase were incubated with 0.1 mM of fluorescein-labeled oligosaccharides and glycopeptides, in a 10 µl reaction for 20 hours at 37°C. The reaction products were analyzed by TLC for digestion of substrate.

β-1,2-Galactosidase: Galβ1-3Galβ1-4Glc-AMC ND

β-1,4-Galactosidase: Galβ1-3GlcNAcβ1-4Galβ1-4Glic-AMC Galβ1-4GlicNAcβ1-3Galβ1-4Glic-AMC ND

α-Neuraminidase: Neu5Aca2→3Galβ1-3GlcNAcβ1-3 Galβ1-4Glic-AMC ND

α-Mannosidase: Manβ1-4Manβ1-4Man-AMC ND

Endo F1, F2, H: Dansylated invertase high mannose.

Endo F3, F4: Dansylated fibrinogen biantennary.

PNGase F: Fluoresceinated fetuin triantennary.

Protease Assay: After incubation of 560 units of α1-6 Mannosidase with 0.2 nmol of a standard mixture of proteins for 20 hours at 37°C, no proteolytic activity could be detected by SDS-PAGE.

References:

U.S. Patent No. 7,094,563

Quality Assurance: No contaminating exoglycosidase or proteolytic activity could be detected (ND).