PROzyme®

GLYKO®

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	GLYKO® α(1-3,4) FUCOSIDASE (Almond Meal)
PRODUCT CODE:	GKX-5019
LOT NUMBER:	P04C1701a
FORMULATION:	Lyophilized from 50 m*M* sodium acetate, 3 mg/ml BSA, pH 5.0 (~150 µg BSA per vial)
RECONSTITUTION:	Reconstitute the enzyme in 1x Reaction Buffer for GKX-5019 (made from 5x stock supplied with the enzyme), or buffer of choice.
STORAGE:	-20°C
PACK SIZE:	200 µU **Note: 200 µU is equal to 100 µU as previously reported by Glyko, Inc.**
EXPIRATION:	January 2008 (extended from prior exp. date based on re-assay)
RE-ASSAY DATE:	January 2006

QUALITY CONTROL

1.	Specific activity[1]:	Passed	(Specification: >1.5 U/mg)
2.	Protease assay[2]:	Passed	(Specification: "Not Detectable")
3.	Contaminants[3]: (except as noted below)	Passed	(Specification: ≤0.001%)
	β-Fucosidase	0.0028%	

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Authorized Signature

1. One unit of α(1-3,4) Fucosidase is defined as the amount of enzyme which will release 1 µmole of fucose from lacto-N-fucopentaose II (Cat. No. GKAD-01007) per minute at pH 5.0 and 37°C. **Note: the enzyme is not active on p-nitrophenyl-α-L-fucopyranoside.**

2. No protease activity was detectable after incubation of the enzyme with 0.2 mg resorufin-labeled casein for ~18 hours at 37°C according to the method described in Twining, S.S. (1984) **Anal Biochem 143**, 30-34.

3. The absence of exoglycosidase contaminants was confirmed by extended incubations with the corresponding pNP-glycosides: β-fucosidase, β-N-acetylhexosaminidase, α-N-acetylgalactosaminidase, α-mannosidase, β-mannosidase, α-galactosidase, β-galactosidase, α-glucosidase, β-glucosidase, β-xylosidase. The product was tested for contaminating sialidase by extended incubation with MU-NANA.

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