



Enzymatic DeglycoMx™ Kit

Part Number KE-DGMX

Certification of Analysis Lot Number 602.1C

Kit Storage Kits should be stored at 4°C.

Kit Contents

Kit includes the enzymes, and reagents required to remove all N-linked oligosaccharides and most O-linked sugars. Each kit will deglycosylate more than 0.5 mg of glycoprotein in 10 reactions.

Enzymes

The enzymes are provided as one 20 µL premixed cocktail including:

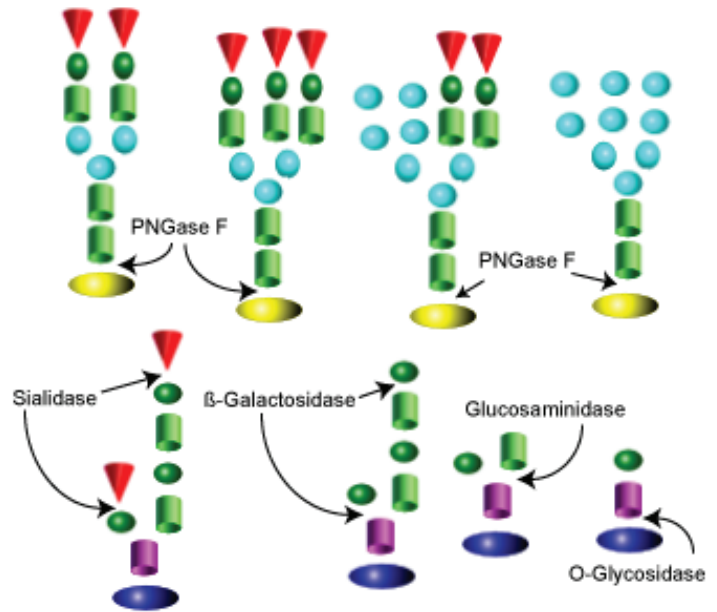
- PNGase F (*E. meningosepticum*) 25 mU
 - O-Glycosidase (*S. pneumoniae*) 6.25 mU
 - Sialidase (*A. ureafaciens*) 25 mU
 - β-Galactosidase (*S. pneumoniae*) 15 mU
 - Glucosaminidase (*S. pneumoniae*) 5 mU
- refer to enzyme specifications for further details

Other Supplied Reagents

- 5x Reaction buffer - 200 µL
- 250 mM sodium phosphate, pH 7
- Denaturation Solution - 100 µL
- Triton X - 100 µL

Specificity

The Enzymatic DeGlycoMx™ Kit will remove all N-linked oligosaccharides and many O-linked oligosaccharides from glycoproteins. N-links (Asn-linked) are removed using the enzyme PNGase F. In addition, all Ser/Thr-linked (O-linked) Gal-(β1-3)-GalNAc-(α1) and all sialic acid substituted Gal-(β1-3)-GalNAc-(α1) will be removed using the combination of Sialidase and O-Glycosidase. The addition of β-Galactosidase and Glucosaminidase will assist in the deglycosylation of larger O-link structures.



Directions for Use

1. Mix 10 µl of 5x reaction buffer with up to 50 µg of glycoprotein in 33 µl distilled water in a 1.5 ml tube.
2. Add 2.5 µl denaturation solution. Mix gently and place in boiling water bath for 5 minutes. Chill on ice.
3. Add 2.5 µl of Triton-X.
4. Add 2 µls of the DeGlycoMx enzyme cocktail. Incubate for 3 hours at 37°C.

Note: Denaturation increases the rate of enzyme digestion up to 10 fold. If denaturation is not desired omit step 2-3, add with 5 µl of distilled water and increase incubation time up to 24 hours.

The efficiency of deglycosylation can be tested by running a sample on a SDS-PAGE gel.

Warranties and liabilities

QA-Bio warrants that the above product conforms to the attached analytical documents. Should the product fail for reasons other than through misuse QA-Bio will, at its option, replace free of charge or refund the purchase price. This warranty is exclusive and QA-Bio makes no other warrants, expressed or implied, including any implied conditions or warranties of merchantability or fitness for any particular purpose. QA-Bio shall not be liable for any incidental, consequential or contingent damages. This product is intended for *in vitro* research only.

updated 5/10/16

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Specifications - Protocol