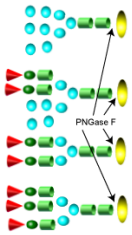
Aug 06, 2018

QA-Bio PNGase F Non-denatured Glycoprotein Protocol



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External link: https://www.qa-bio.com/product/pngase-f/

Protocol Citation: Mike Gibson 2018. QA-Bio PNGase F Non-denatured Glycoprotein Protocol. **protocols.io** https://dx.doi.org/10.17504/protocols.io.seaebae

Protocol status: Working
We use this protocol and it's working

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Keywords: PNGase F, oligosaccharides from glycoprotein, plant glycoprotein, oligosaccharide, glycoprotein, enzyme, aspartic acid, most native protein, core fucose

Abstract

PNGase F cleaves N-linked (asparagine-linked) oligosaccharides from glycoproteins. The enzyme deaminates asparagine to aspartic acid, leaving the oligosaccharides intact. Denaturation increases the rate of cleavage. Most native proteins can still be completely N-deglycosylated but incubation time must be increased. The enzyme will remain fully active under reaction conditions (37˚C) for at least 96 hours. PNGase F will not remove oligosaccharides containing Alpha-(1,3)-linked core fucose commonly found on plant glycoproteins; for this purpose, use peptide N-glycosidase A.

Attachments

PDF

PNGaseF.QA-Bio.specs...

265KB

Materials

MATERIALS

PNGase F **QA-Bio Inc** **Catalog #**E-PNG01

1 Add up to 200 µg of glycoprotein to an Eppendorf tube.

2 Adjust to 40 µl final volume with de-ionized water.

3 Add 10 µl 5x Reaction Buffer 7.5

4 Add 2.0 µl of enzyme to the reaction.

5 Incubate 3-24 hours at 37°C.