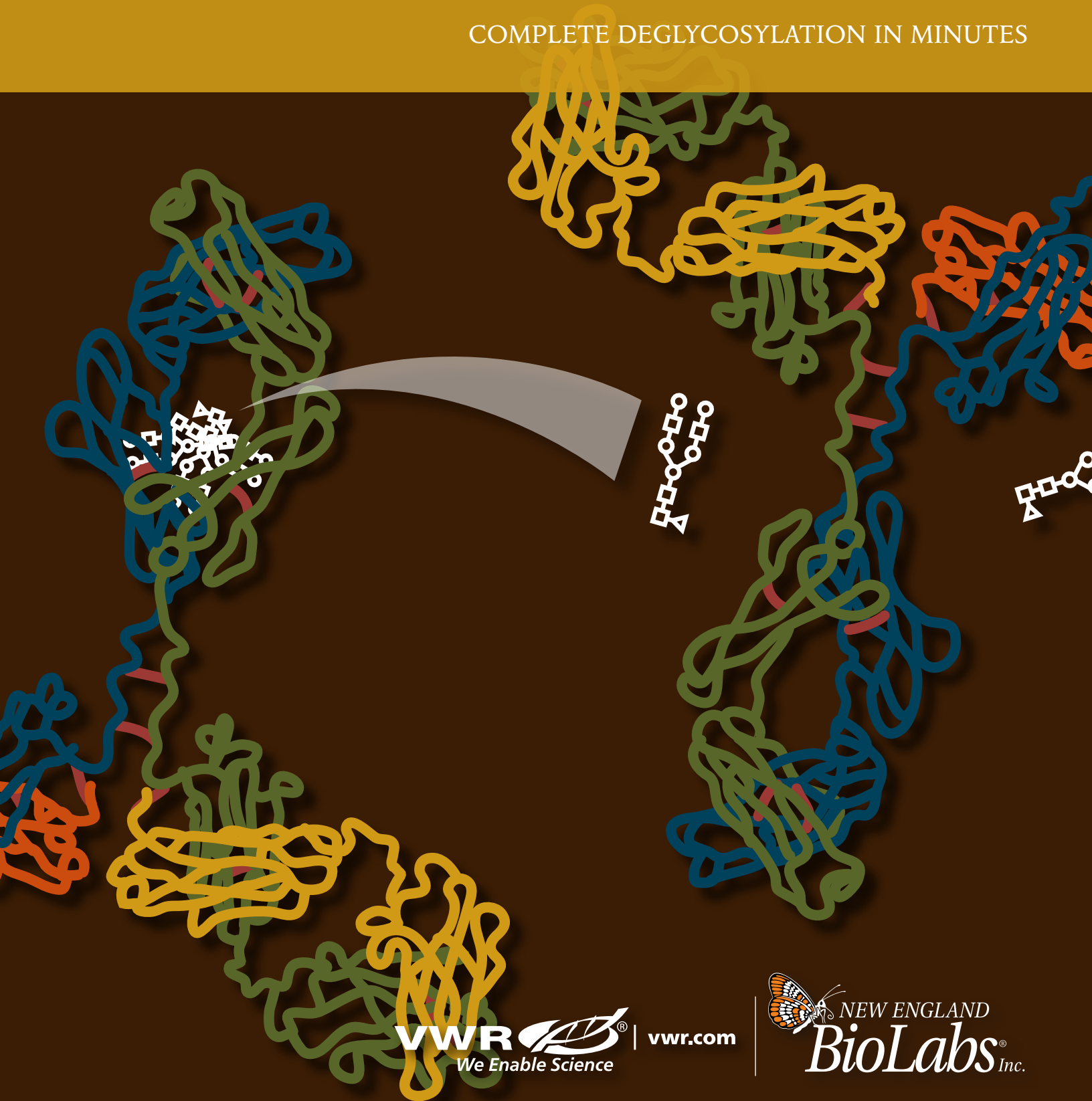


Rapid™ PNGase F

COMPLETE DEGLYCOSYLATION IN MINUTES



VWR  | vwr.com
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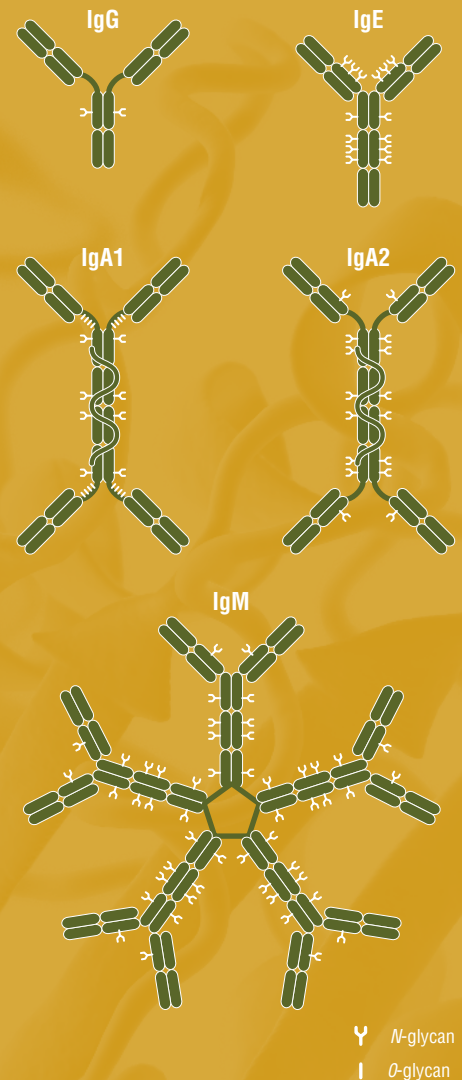
 NEW ENGLAND
BioLabs® Inc.

Is antibody deglycosylation slowing down your workflow?

Rapid PNGase F is an improved reagent for the deglycosylation of different isotypes (classes) of antibodies and antibody-fusion proteins. It allows for complete and rapid deglycosylation in minutes. All *N*-glycans are released, without bias, and ready to be prepared for downstream chromatography or mass spectrometry analysis.

Benefits

- Speed up your deglycosylation with our one-step reaction setup
- Release all *N*-glycans without bias
- Achieve sensitive and reproducible results with short reaction times
- Move directly and rapidly to downstream chromatography or mass spectrometry analysis
- Highly purified, recombinant protein with a long shelf life, reducing lot-to-lot variability



With Rapid PNGase F, you can achieve complete deglycosylation in minutes

Standard Workflow

Denaturation
(OTT, Heat)
15–45 min.

Alkylation
30 min.

PNGase F
Digestion
2–16 hr.



~3–17 hr.

Rapid Workflow

Rapid
PNGase F
Digestion
5 min.



5 min.

Antibody analysis made simple with Rapid PNGase F.



Quality control



Regulatory monitoring



THERAPEUTIC ANTIBODIES



Glycoform profiling

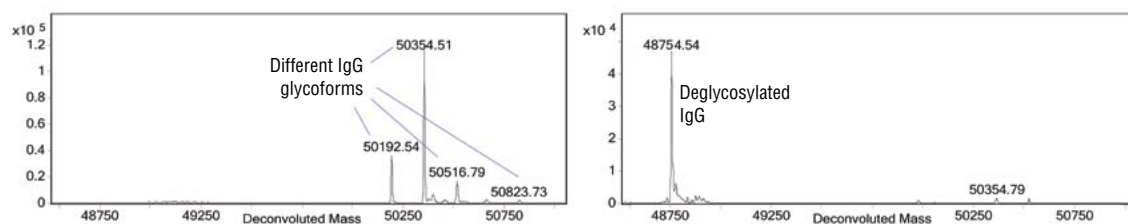
Save time during regulatory monitoring and quality control with precise glycoform profiling

Achieve complete deglycosylation of antibodies and glycoproteins in less than 10 minutes.

Rapid PNGase F results in complete deglycosylation with a short incubation

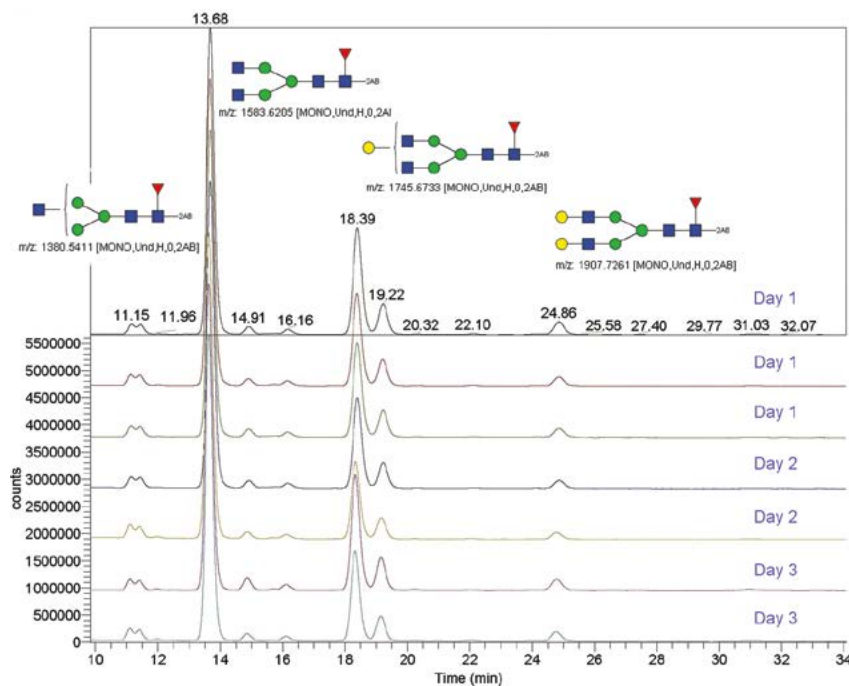
Control (Untreated IgG)

Rapid PNGase F (5 min. at 50°C)



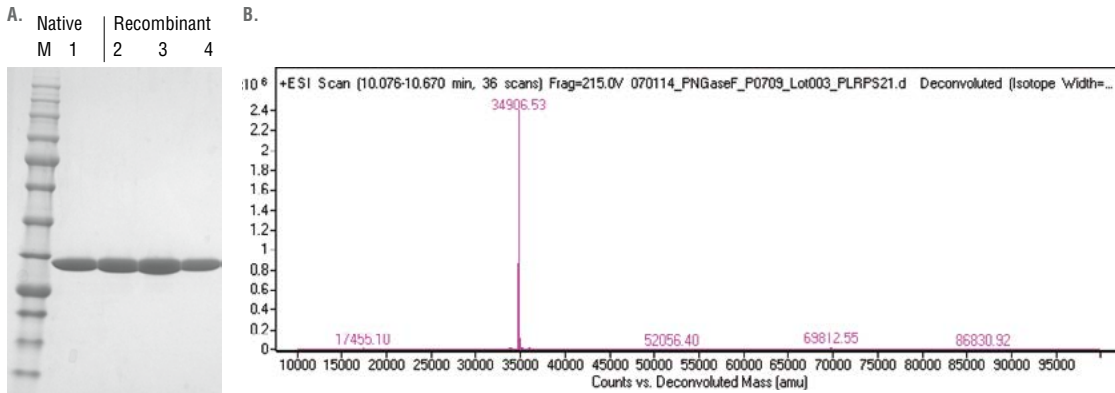
Incomplete PNGase F digestions are a concern because some N-glycans may be removed faster than others, resulting in a biased analytical composition. A monoclonal murine antibody was incubated for 5 min. with Rapid PNGase F, demonstrating that a short incubation is sufficient to deglycosylate every N-glycan site without bias.

Rapid PNGase F delivers a highly reproducible glycan profile, even for low abundance species



Rituximab samples (80 µg) were treated for 5 min. with Rapid PNGase F. Released N-glycans were labeled with 2AB and analyzed by LC-MS. Results show seven replicates from 3 different days, by different operators. The glycan profile is highly reproducible, even for low abundance species.

All PNGase F products from NEB are highly pure for reproducible results



A) SDS-PAGE analysis of PNGase F (Glycerol-free). M: Unstained Protein Marker, Broad Range (2–212 kDa). Lane 1: Native PNGase F, Lot 41. Lane 2-4: Recombinant PNGase F, Lot 2, 3, 4

B) Intact MS analysis of PNGase F (Glycerol-free), Recombinant. MW: 34,906.53 Daltons. Mass determination by an Agilent® 6210 TOF LC/MS.



Not sure which PNGase F product will work best for you?

NEB offers a selection of PNGase F products, all of which are highly pure for reproducible results. The selection chart below shows recommendations for different applications.

	RAPID PNGase F	PNGase F	PNGase F (GLYCEROL-FREE)	REMOVE-IT® PNGase F	RECOMBINANT PNGase F	RECOMBINANT PNGase F (GLYCEROL-FREE)
N-glycan removal from glycoproteins		•	•	•	•	•
Optional removal of the enzyme from the reaction				•		
Glycoprotein analysis, regularity monitoring	•*				•	•
High-throughput antibody analysis, regularity monitoring	•					
Glycomics	•	•	•	•	•	•
Proteomics	•		•	•		•

* Rapid PNGase F works for many other glycoproteins (not antibody-related), but this needs to be empirically tested for each glycoprotein.



Did you know that many of these products can be purchased in larger volumes? Ask your local VWR representative for more information.

Choose from our selection of PNGase F products

For your deglycosylation application.

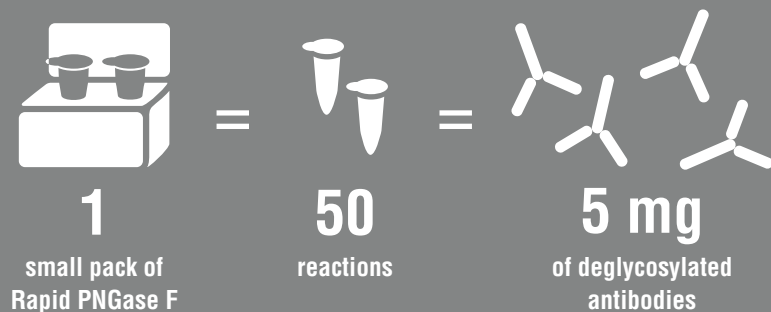
PRODUCT	VWR CAT. NO.	SIZE
Rapid PNGase F	102877-828	50 reactions
PNGase F	101227-726	15,000 units
	101227-724	75,000 units
PNGase F (Glycerol-Free)	101227-730	15,000 units
	101227-728	75,000 units
Remove-iT PNGase F	102855-176	6,750 units
	102855-178	33,750 units
PNGase F, Recombinant	102877-604	15,000 units
	102877-602	75,000 units
PNGase F (Glycerol-Free), Recombinant	102877-614	15,000 units
	102877-606	75,000 units

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 RAPID® is a trademark of New England Biolabs, Inc.



PNGaseF_TRI – Version 1.0 – 7/15

What do you get with Rapid PNGase F?



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