

BlotGlyco[®] O-Glycan Sample Preparation Kit

“BlotGlyco[®] O-Glycan Sample Preparation Kit” enables scientists to analyze O-linked glycans attaching to glycoproteins in biological samples, including biotherapeutic glycoproteins, in a simple, safe and streamlined operation. BlotGlyco[®] O-Glycan Sample Preparation Kit is a valuable tool to support customers involved in glycoprotein characterization in research and process development, monitoring and batch release, characterization of previously unattainable information on O-glycan structures.

BlotGlyco[®] O-Glycan Sample Preparation Kit consists of “O-glycan releasing reagent” and “BlotGlyco[®] bead”. “O-Glycan releasing reagent” is for chemical treatment of protein samples with an ammonium salt that is appreciably innocuous than conventional methods. Besides, BlotGlyco[®] O-Glycan Sample Preparation Kit provides an effective O-glycan preparation with unbiased mild O-glycan release from glycoproteins. Since the released O-glycans from proteins carry a reducing terminal that is available for further manipulations, O-glycans can be enriched and labeled using BlotGlyco[®] bead included in the BlotGlyco[®] O-Glycan Sample Preparation Kit. Even smaller O-glycans such as mono-, di-, and trisaccharides can be recovered efficiently owing to chemoselective ligation between their reducing aldehyde and hydrazide group on the beads. Thus, the BlotGlyco[®] O-Glycan Sample Preparation Kit is beneficial for a wide range of users who wish to recover O-glycans with a specific (fluorescent) tag depending upon user’s analysis method, e.g. HPLC/UPLC, LC-MS, and capillary electrophoresis, etc.

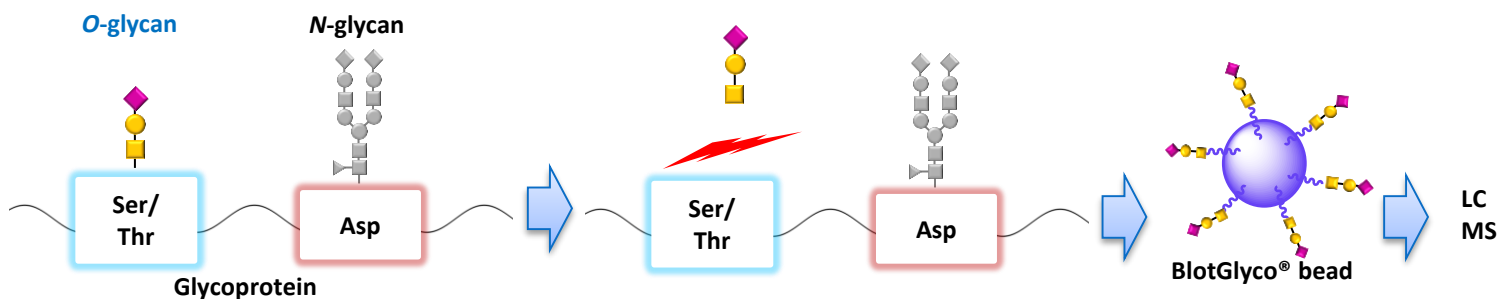


[BlotGlyco[®] O-Glycan Sample Preparation Kit Components]

- O-Glycan release reagent (for 10 tests)
- BlotGlyco[®] Beads (for 10 tests)
- Reaction spin tubes (for 10 tests)
- Sample tubes (for 10 tests)
- Cleanup columns (for 10 tests)
- Operation Protocol

[Key features]

- BlotGlyco[®] O-Glycan Sample Preparation Kit eliminates time-consuming tedious purification steps. A two-day procedure results in highly purified, 2AB labeled O-glycan sample preparation.
- Use of a mild ammonium salt for the releasing reaction, and as a consequence, the operations are much safe and simple over hydrazinolysis.
- Easy operations. No need for special devices.



Step 1. Release O-glycans from glycoproteins with a mild ammonium salt (5 hours reaction plus an overnight dry-up)
Step 2. Purify and label the released O-glycans with BlotGlyco[®] bead (1 day)

Figure 1. Process of O-glycan sample preparation from glycoprotein using BlotGlyco[®] O-Glycan Sample Preparation Kit

[Comparability with a conventional method]

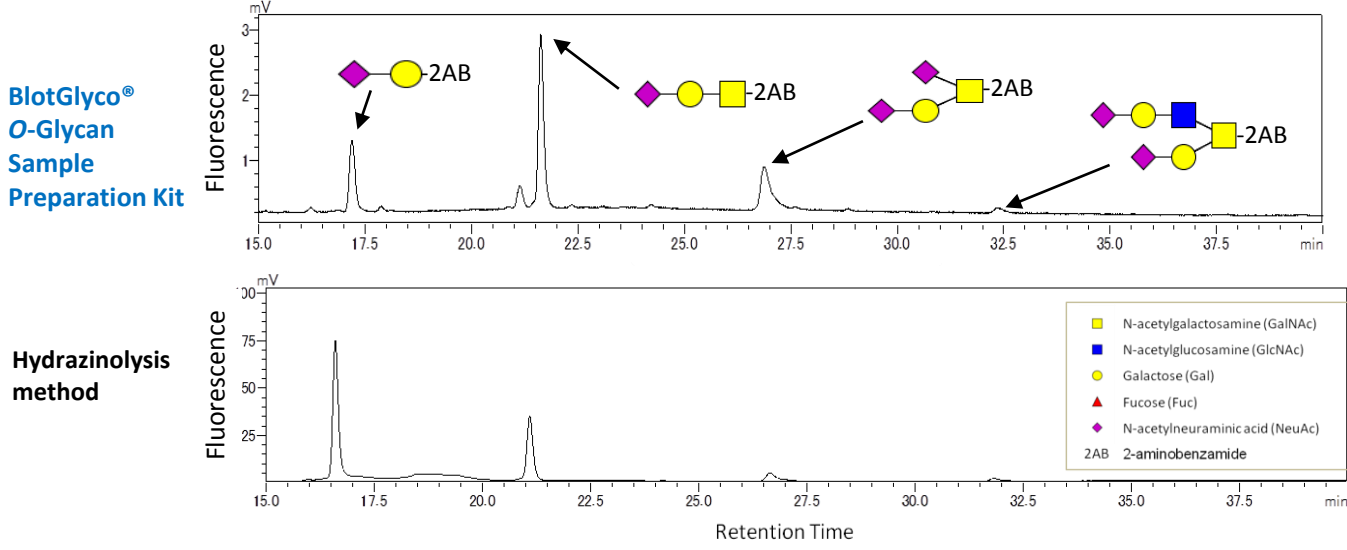


Figure 2. HPLC analysis of bovine fetuin (20 µg) O-glycan using BlotGlyco® O-Glycan Sample Preparation Kit and a hydrazinolysis method.

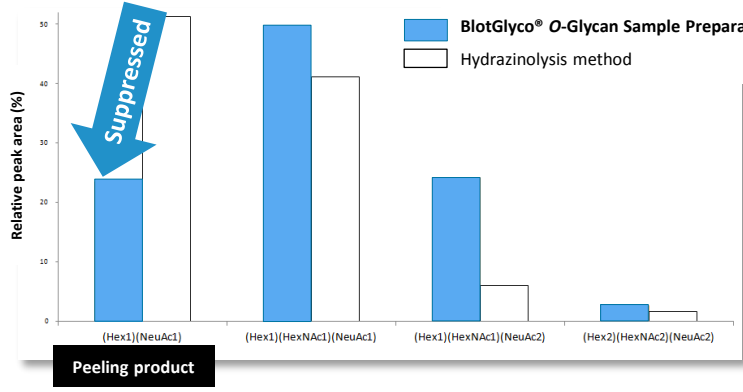


Figure 3. Comparison of peeling product with hydrazinolysis method

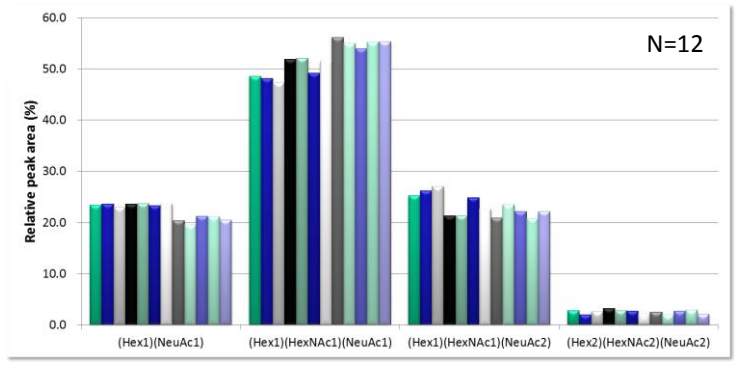


Figure 4. Reproducibility of BlotGlyco® O-Glycan Sample Preparation Kit

[Ordering information]

Cat. No.	Product name	O-Glycan releasing reagent	BlotGlyco® bead	Reaction tube	Cleanup column
BS-45450Z	BlotGlyco® O-Glycan Sample Preparation Kit	for 10 tests	for 10 tests	for 10 tests	for 10 tests