BIOTECH SUPPORT GROUP

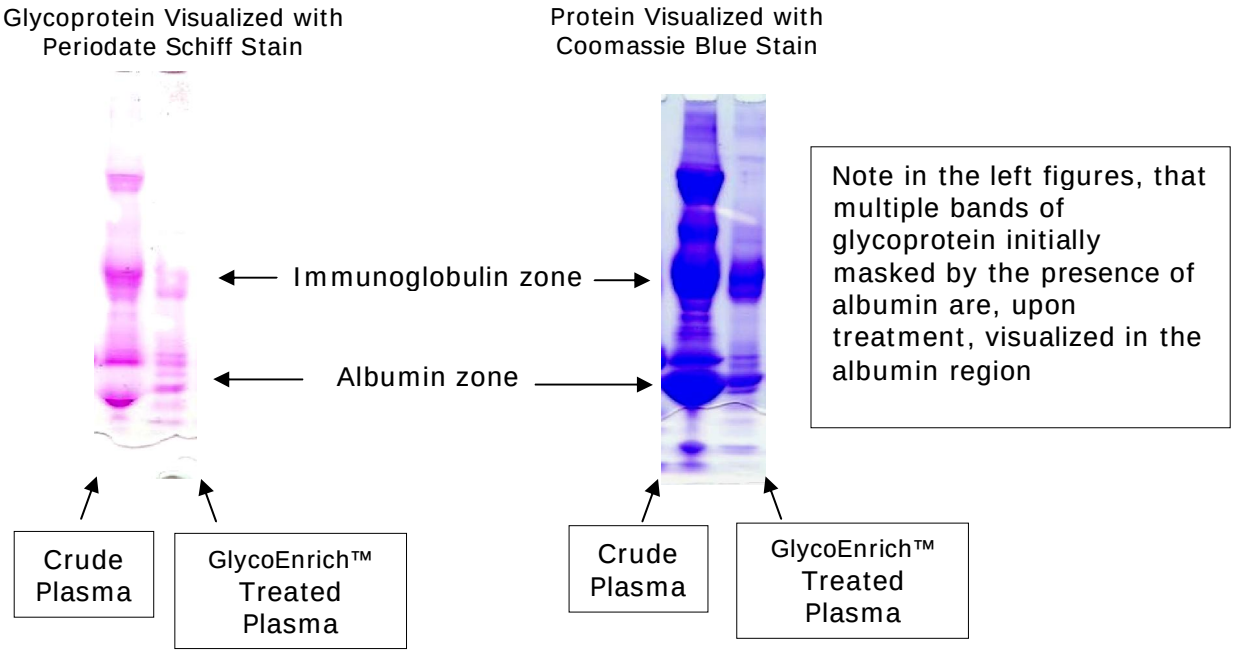
GlycoEnrich™

Glycoprotein Enrichment Reagent

- Unmasks glycoproteins from high abundance proteins, most notably albumin
- Enrichs glycoproteins from blood, serum or plasma
- Removes > 90% of non-glycosylated proteins, up to 8X enrichment factor
- Immediate post-processing, no salts, solvents or eluate sugars to dialyze

GlycoEnrich™ is an innovative reagent used for glycoprotein isolation from serum, plasma, or other protein samples. It provides a fast and efficient method for glycoprotein enrichment by extracting non-glycosylated proteins from the sample, leaving behind the enriched glycosylated proteins ~ greater than 40% carbohydrate, in the supernatant.

SAMPLE	**Glycoprotein Recovered**	**Protein Removed**	**Glycoprotein Enrichment Factor**
Mouse Plasma	97%	87%	8.1 X
Rabbit Plasma	87%	87%	6.9 X
Sheep Plasma	89%	79%	4.2 X



Besides salts and solvents, glycoproteins have been enriched by lectin affinity chromatography, most commonly with Concanavalin A immobilized on a solid support. However, GlycoEnrich™ collectively offers many advantages over previous glycoprotein processes:

- It is a solid-phase suspension, ready for use, typically 1:1 volume ratio.
- Reactivity is mild, based on surface phenomena. No salts or solvents to interpenetrate the proteins and potentially causing denaturation.
- As opposed to elution chromatography, there is no subsequent processing to eliminate the eluting agent, sugars in the case of lectin chromatography. Eliminating this time-consuming step is economizing, and improves the recovery of low abundance proteins, often lost in salt exchange-type procedures.

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Product	Quantity	# of Samples & Sample Size*	Item No.	Price
GlycoEnrich™	15 ml	150, 100µl Serum Samples	BG255-15	$325
GlycoEnrich™	50 ml	150, 100µl Serum Samples	BG255-50	$680

PROTOCOL

1. Add 2 ml of **Conditioning Buffer PB1(30 ml PB1 Buffer)** to 1 ml of the sample (2:1 volume ratio).

2. Resuspend **GlycoEnrich™** by shaking well prior to use. Using wide bore (or cut) pipette tips, add 1 ml of **GlycoEnrich™** to 3 ml of the conditioned sample (1:3 volume ratio).

3. Gently mix by inversion for 10 minutes at room temperature.

4. Centrifuge sample at 10,000 x g for 5 minutes or microfuge at 16,000 x g for 5 minutes.

5. Retain the supernatant which contains the glycosylated protein fraction of the sample.

Note: The protocol can be adjusted to different sample volumes by proportionally keeping the sample ratios. For greater protein removal, add a larger volume of GlycoEnrich™. For starting samples with low protein concentration, use a lesser volume of GlycoEnrich™.

CONTACT US

We welcome your questions and comments regarding our products.

Call 732-274-2866, 800-935-0628 (North America) Mon – Fri 9am-6pm EST.

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