

GlycoBlue™ Coprecipitant

Store at -20°C.

Catalog #:	AM9515	AM9516
Amount:	300 µL	5 x 300 µL
Product Description:	GlycoBlue™ Coprecipitant consists of a blue dye covalently linked to glycogen, intended for use as a visible coprecipitant for nucleic acids.	
Concentration:	15 mg/mL	
Storage Conditions:	Store at -20°C.	
Storage Buffer:	Nuclease-free Water	

USER INFORMATION

General Information: Ambion® GlycoBlue™ Coprecipitant is glycogen, a branched chain carbohydrate, covalently linked to a blue dye. It facilitates nucleic acid precipitation while increasing the size and visibility of the pellet. GlycoBlue Coprecipitant offers a means of enhancing precipitation without adding appreciable amounts of exogenous nucleic acids to the sample. For this reason, it is preferable to yeast RNA as a coprecipitant for applications where added nucleic acid could interfere or compete with subsequent enzymatic reactions. Additionally, the easily recognizable blue color of the resultant pellet ensures that the pellet is visible in translucent or opaque tubes in which recognition of nucleic acid pellets can be difficult or impossible.

Applications: **Standard Salt/Ethanol or Isopropanol Nucleic Acid Precipitation With GlycoBlue Coprecipitant**

1. Add ammonium acetate to 0.5 M.
2. Add GlycoBlue Coprecipitant to 50 µg/mL.
3. Add 2 volumes 100% ethanol **or** 1 volume 100% isopropanol.
4. Incubate at -20°C for 15 min and centrifuge at top speed (~13,000 rpm) in a microcentrifuge for 15 min. A significant amount of GlycoBlue Coprecipitant precipitates with the nucleic acid, and GlycoBlue Coprecipitant remains associated with the nucleic acid pellet during washing with 70% ethanol or isopropanol.

Application Notes

- During phenol:chloroform extraction, GlycoBlue Coprecipitant remains in the aqueous phase.
- About 95% of the GlycoBlue Coprecipitant will be removed from the recovered RNA by precipitation with 2.5 M Lithium Chloride (LiCl). (Note: no alcohol is used in this precipitation - simply bring the sample to 2.5 M LiCl, and spin to pellet. RNA will precipitate efficiently using this procedure, however, DNA will not.)
- GlycoBlue Coprecipitant is **not** recommended for use with the Ambion HybSpeed™ RPA Kit (Cat #AM1412).

QUALITY CONTROL

Nonspecific Endonuclease Activity: Meets or exceeds specification when a sample is incubated for 14–16 hr with 300 ng supercoiled plasmid DNA and analyzed by agarose gel electrophoresis.

Exonuclease Activity: Meets or exceeds specification when a sample is incubated for 14–16 hr with 40 ng labeled *Sau3A* fragments of pUC19 and analyzed by PAGE.

RNase Activity: Meets or exceeds specification when a sample is incubated for 14–16 hr with 25 ng labeled RNA and analyzed by PAGE.

Functional Testing: Greater than 90% precipitation of 1 ng high specific activity gel-purified nucleic acid is achieved using GlycoBlue Coprecipitant in a 0.5 M Ammonium Acetate-, 2 volume-ethanol precipitation following incubation at -20°C for 30 min and microcentrifugation at maximum speed for 20 min.

OTHER INFORMATION

Material Safety Data Sheets: Material Safety Data Sheets (MSDSs) can be printed or downloaded from product-specific links on our website at the following address: www.ambion.com/techlib/msds. Alternatively, e-mail your request to MSDS_Inquiry_CCRM@appliedbiosystems.com. Specify the catalog or part number(s) of the product(s), and we will e-mail the associated MSDSs unless you specify a preference for fax delivery. For customers without access to the internet or fax, our technical service department can fulfill MSDS requests placed by telephone or postal mail. (Requests for postal delivery require 1–2 weeks for processing.)

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