

Glycogen

Store at -20°C *Do not store in a frost-free freezer.*

Catalog #:	AM9510
Amount:	5 x 1 mL
Product Description:	A branched chain carbohydrate intended for use as a carrier for nucleic acid precipitation.
Source:	Mussel
Concentration:	5 mg/mL
Storage Conditions:	Store at -20°C . <i>Do not store in a frost-free freezer.</i>
Storage Buffer:	Nuclease-free Water

USER INFORMATION

General Information: Ambion glycogen is treated with Proteinase K and SDS to remove any contaminating nucleases, then extracted with phenol/chloroform, ethanol precipitated and resuspended in nuclease-free water.

Note: Glycogen is isolated from a biological source (mussels). Therefore, preparations may contain minute concentrations of DNA that may be detectable by RT-PCR and PCR.

Applications: Glycogen 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. For example, glycogen may be an appropriate coprecipitant when using terminal transferase to add non-template directed nucleotides to the 3' ends of DNA fragments or when using polynucleotide kinase to end-label oligonucleotides.

For precipitation of nucleic acids, adjust the monovalent cation concentration of the solution (for example to 0.5 M Ammonium Acetate). Add glycogen to a final concentration of 10–150 $\mu\text{g/mL}$, mix well, and then mix with one volume of isopropanol or two volumes of ethanol. Chill the mixture for at least 15 minutes at -20°C or below, then centrifuge for at least 15 min at $\geq 10,000$ xg. Carefully remove the supernatant fluid, and resuspend the nucleic acid in the desired buffer.

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.

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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