

Glycogen (20 mg/mL)

Product description

Glycogen is commonly used as a carrier for nucleic acid precipitation. In most cases, its DNA co-precipitation performance is better than that of tRNA or sonication. Moreover, glycogen is free of DNase and RNase, so nucleic acids precipitated with it are more suitable for subsequent PCR, RT-PCR, as well as restriction enzyme and other nuclease-based reactions. In contrast, DNA prepared using tRNA or sonication as a carrier sometimes interferes with the above molecular reactions.

This product is molecular biology grade glycogen and does not contain DNase or RNase. Typically, 1 μL is sufficient to precipitate DNA or RNA at the picogram level from a 1 mL solution. Each package of this product is sufficient to precipitate at least 500 standard DNA or RNA samples.

Composition and storage conditions

Components	Size	500 μL	Storage
Glycogen (20 mg/mL)		500 μL	-20 °C
Shipping: Blue Ice		Shelf life: 12 months	

Experimental operation

1. Add 1 μL glycogen (20 mg/mL) to the DNA or RNA sample to be precipitated and mix well.

***Note:** For specific experimental procedures, the amount of glycogen can be adjusted according to the literature or particular protocols, and generally does not exceed 4 μL .

2. Precipitate the DNA or RNA using ethanol or other methods as required by the experiment.

3. Add ethanol or other precipitation reagents and mix well. Then centrifuge at $12,000 \times g$ for 10 min to obtain the co-precipitate of nucleic acids and glycogen.

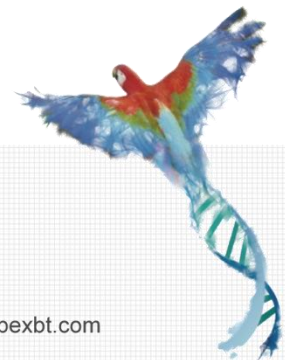
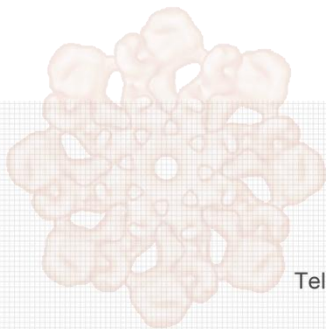
4. If nearly complete precipitation is required, after adding ethanol or other precipitation reagents and mixing, the sample can be stored at -20°C or -80°C for several hours or overnight before centrifugation.

Notes

1. Typically, add 1 μL glycogen (20 mg/mL) to each sample. In cases where glycogen is known to potentially interfere with subsequent reactions, the amount of glycogen can be reduced appropriately, or tRNA can be used as an alternative co-precipitant.

2. Avoid repeated freeze-thaw cycles to prevent a decrease in glycogen efficiency.

3. This product is for scientific use only.



APEx BIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com