

# invitrogen™

by *life* technologies™

## UltraPure™ Glycogen

Cat. no. 10814-010

Size 100 µL

Store at -30°C to -10°C

Doc. Part no. 10814010.pps

Pub. no. MAN0000908

Rev. 2.0

### Description

Use UltraPure™ glycogen as a carrier for nucleic acid precipitation in ethanol at a concentration of 0.2–0.4 µg/µL of aqueous sample. UltraPure™ glycogen is supplied at 20 µg/µL in RNase-free water.

### Notes

- Use UltraPure™ glycogen as a carrier in ethanol precipitation of ligation reactions. Using 8 µg of UltraPure™ glycogen in a 100-µL reaction with chemically competent cells does not affect the transformation (in-house communication).
- Used at a concentration of 0.001 mg/mL, UltraPure™ glycogen does not inhibit TdT.
- A concentration of ≤ 2 mg/mL glycogen has no effect on SuperScript® II Reverse Transcriptase (Gerard, 1994).
- T4 RNA Ligase is not inhibited by samples precipitated in the presence of 0.02 mg/mL glycogen (Apte, 1993).
- UDG is not inhibited by glycogen.
- Glycogen can interfere with DNA-protein interactions (Galliard, 1990).
- Glycogen can decrease RNA quality and inhibit RT-PCR in RNA isolated from tissues rich in polysaccharides and proteoglycans (Chomczynski, 1995).

**For Research Use Only. Not for use in diagnostic procedures.**

## References

- Apte, A. N. and Siebert, P. D. (1993) *Biotechniques* 15.5, 890.
- Chomczynski, P. and Mackey, K. (1995) *Biotechniques* 19.6, 942.
- Galliard, C. and Strauss, F. (1990) *Nucleic Acids Research* 18, 378.
- Gerard, G. (1994) *Focus*® 16:4, 102.

## Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support) and search for the Certificate of Analysis by product lot number, which is printed on the box.

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