Product Data Sheet

Product Name:	Glycogen (DNase, RNase & Protease free)
Cat. No.:	GC26615

Chemical Properties

Cas. No.			
Formula	M.Wt		
Solubility	Storage		Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Protocol

1.□□□□□DNA□RNA□□□□□1□□Glycogen (20mg/ml)□□□□
2.□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
3.□□□□□□□□□□□□□□□□□DNA□RNA□
4.□□□□□□□□□□□□□12,000g□□□□10□□□□□□□□□□glycogen□□□□□□
5.□□□□□□□□□□□□□□□□□□□□□□□□□□□□-20℃□-80℃□□□□□□□□□□□□□

Background

This product is derived from oyster glycogen. It is free of DNase, RNase and protease, which can be used as a carrier to increase the recovery of nucleic acids from diluted solutions by alcohol precipitation.

As a precipitant for nucleic acids, glycogen works better than tRNA or sonicated DNA in most cases. Since glycogen does not contain DNA and RNA, the nucleic acids precipitated with glycogen is more suitable for subsequent PCR, RT-PCR, and endonuclease reactions.

It was reported that precipitation of ligation products with glycogen has no interference with subsequent bacterial transformations. Glycogen of 0.001mg/ml will not inhibit TdT,

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glycogen of no more than 2mg/ml will not affect the activity of reverse transcriptase, and 0.02mg/ml glycogen will not inhibit T4 RNA ligase. However, glycogen interferes with DNA-protein interactions.

Usually, 1µl of Glycogen (20mg/ml) can precipitate at least picogram (pg) of DNA or RNA from 1ml of solution. The 0.5ml, 2ml and 10ml packages of this product are sufficient to precipitate at least 500, 2000 and 10000 DNA or RNA samples in conventional quantities, respectively.

Precautions
Usually, 1µl of Glycogen (20mg/ml) is sufficient for each sample. If glycogen may interfere with subsequent reactions, the amount of glycogen can be appropriately reduced, or tRNA can be used as a precipitant instead.