GOLDBIO COM GOLDBIOTECHNOLOGY Certificate of Analysis

Product Name:	4-Nitrophenyl-N-acetyl- β -D-galactosaminide; PNP- β -D-GalNAc
Cat #:	N-200
CAS #:	14948-96-0
Lot #:	Lot Specific
Retest Date:	Lot Specific
Storage: [†]	Store at -20°C. Protect from light.

Test	Specs	Results
Color	white to off-white	off-white
Form	crystalline powder	crystalline powder
Color of Solution	almost colorless to slightly yellow	corresponds
(0.5% in DMF/water 1:1)		
Color of Solution	yellow to yellow-green	corresponds
(0.5% in DMF)		
Water Content (K. Fischer)	max. 6.0%	0.9%
Purity (TLC)	min. 98%	>98%
Free p-Nitrophenol (UV)	max. 0.1%	0.1%
TLC	corresponds to reference material	corresponds
(50 mg in 10 ml of DMF/Water 1:1; 1-		
butanol/acetic acid/water 3:1:1; UV		
254 nm, sulfuric acid reagent and		
heat)		
Specific Rotation [alpha]D	+17.0 to +21.0	+17.8
(c = 0.1 in water)		
FT-IR Spectrum	corresponds to reference spectrum	corresponds

* Gold Biotechnology, Inc. provides this Certificate of Analysis in good faith and to the best of its knowledge. It should not be substituted for the user's own raw material quality control. This material is for laboratory use only.

† Storage at listed temperature applies to retest date (if shown) or two years from purchase date. Check label for long term storage conditions, which may extend the product beyond the retest date and/or greater than two years from purchase.

Gold Biotechnology, Inc.

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