



Product Specification

Product Name:	4-Nitrophenyl- β -D- galactosidase (p-Nitrophenyl- β -D-galactoside; PNP- β -D-Gal)
Cat #:	N-290
CAS #:	3150-24-1
Storage:	Store at -20°C. Protect from light.

Test	Specifications
Color	white to off-white
Form	crystalline powder
Color of Solution (1% in water)	colorless to slightly yellow
Turbidity of Solution	≤ 4.0 NTU
Water Content (K. Fischer)	$\leq 7.0\%$
Specific Rotation $[\alpha]_D^{20}$ (c=1 in water, on dry matter)	-86.0 to -82.0
Purity (HPLC)	≥ 98.0 area-%
Impurity (p-nitrophenol)	$\leq 0.1\%$
FT-IR Spectrum	corresponds to reference spectrum
^1H -NMR Spectrum	corresponds to assigned structure
^{13}C -NMR Spectrum	corresponds to assigned structure

GOLD BIOTECHNOLOGY, INC. provides this Product Specification in good faith. Specifications are subject to change.

Gold Biotechnology, Inc.

1328 Ashby Rd.

St. Louis, MO 63132

P: (314)890-8778

F: (314)890-0503

E: contactgoldbio86@goldbio.com