



Certificate of Analysis

Product Name: IPTG
Cat #: I2481
CAS #: 367-93-1
Lot #: Lot Specific
Retest Date[†]: Lot Specific
Storage: Store desiccated at -20°C. Protect from light.

Test	Specs	Results
Description	White to almost white crystalline powder	Complies
Solubility	Soluble in water and methanol	Complies
Identification by IR	The IR spectrum of the sample should be concordant with the working sample	Complies
pH 5% in water	5.0-7.0	Complies
Absorbance 5% w/v Solubility in water: (a) 300 nm (b) 400 nm	Not more than 0.13 Not more than 0.06	Complies Complies
Melting Range	110-114°C	Complies
Moisture Content by KF	≤1.0% w/w	Complies
1,4-Dioxane	Should be absent	Complies
Specific of Optical Rotation (c = 1.0% in water)	-34.5° to -28.5°	Complies
Purity by HPLC	≥98.0%	Complies

* GOLD BIOTECHNOLOGY, INC. provides this Certificate of Analysis in good faith. No representation is made as to the accuracy or comprehensiveness of the data and GOLD BIOTECHNOLOGY, INC. shall not be liable for any errors in the data. No representation is made as to the fitness of the data or of the materials for any particular use. User shall exercise its own raw material quality control, including analysis of the material, and shall independently determine the fitness of the data and the material for any use. No representation or warranty is made as to the effectiveness of the material or results obtained using the material, including damages or injury. GOLD BIOTECHNOLOGY, INC. liability is limited to the cost of the material. User assumes all responsibility for compliance with all laws and regulations implicated by use of this material.

† If provided, the Certificate of Analysis (COA) retest date corresponds to the recommended storage conditions provided on the COA. If no retest date is shown, the shelf-life for products is 2 years after purchase when stored according to COA recommendations. Retest dates are not rigid, and often only serve an informational purpose. COA retest dates are supplied by the manufacturer; however, GoldBio product labels may contain different storage recommendations to extend the life of the product beyond the manufacturer retest date or 2 years from purchase.

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Test	Specs	Results
Assay by HPLC (on anhydrous basis)	98-101% w/w	Complies

Made from synthetic, non-animal origin.

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