



Certificate of Analysis

Product Name: TMB, free base
Cat #: TMBF
CAS #: 54827-17-7
Lot #: Lot Specific
Retest Date[†]: Lot Specific
Storage: Store at 4°C. Protect from light.

Test	Specs	Results
Color	off-white to yellow	Complies
Form	powder	Complies
Turbidity (0.4% in acetic acid 20%)	≤2.0 NTU	Complies
Loss on Drying (60°C, 3 h, vacuum)	≤1.0%	Complies
Melting Point	166.5 to 169.5°C	Complies
Perchloric Acid Titration (0.1 mol/L)	99.0 to 101.0%	Complies
Purity (GC)	≤99.0 area-%	Complies
Purity (DSC) (DSC = Differential Scanning Calorimetry)	≤99.0%	Complies
UV-Absorption (0.8% in DMSO at 400-700 nm)	≤0.100 AU	Complies
Sulfated Ash	≤0.2%	Complies
FT-IR Spectrum	corresponds to reference spectrum	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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