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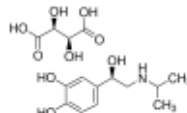
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

(-)-Isoproterenol (+)-bitartrate salt - powder

Product Number: I2760
Batch Number: SLBQ2700V
Brand: SIGMA
CAS Number: 54750-10-6
MDL Number: MFCD00069361
Formula: C₁₁H₁₇NO₃ · C₄H₆O₆
Formula Weight: 361.34 g/mol
Quality Release Date: 18 MAR 2016



Test	Specification	Result
Appearance (Color)	White to Off-White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless to Faint Yellow	Colorless
Solubility (Turbidity)	Clear	Clear
50 mg/ml, H ₂ O		
% Water	≤ 11	2
by Karl Fischer		
% Isopropanol	≤ 5 %	0 %
GC		
Proton NMR Spectrum	Conforms to Structure	Conforms
Nitrogen (Dry Basis)	3.6 - 4.2 %	3.9 %
Specific Rotation (dry basis)	-15.7 - -14.1 °	-14.4 °
c = 2.3 in H ₂ O at 20 deg C		
Purity (TLC)	≥ 98 %	100 %

Rodney Burbach, Manager
 Analytical Services
 St. Louis, Missouri US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.