

Certificate of Analysis

Reference Material & Standard

Product Name:	18 β -Adrenergic Receptor Mix Solution in Methanol, 100 μ g/mL	Catalogue Number:	MCAD304347
Appearance:	Liquid	Lot Number:	0907-SA-7817
Solvent:	Methanol	Storage:	2°C ~ 8°C Protected from light and Sealed
Expiry Date:	Sep 06, 28		

Chemical Structure:

Warning:



N/A

NO.	Component	CAS No.	Certified Concentration Value (100 μ g/mL)	Uncertainty (%)
1	Labetalol hydrochloride	32780-64-6	100.4	1.8
2	Tulobuterol hydrochloride	56776-01-3	99.7	1.8
3	Bromchlorbuterol hydrochloride	78982-84-0	99.9	1.8
4	Cimaterol	54239-37-1	100.5	1.8
5	Formoterol fumarate dihydrate	183814-30-4	99.6	1.8
6	Cimbuterol	54239-39-3	100.3	1.8
7	Clorprenaline	3811-25-4	100.1	1.8
8	Isoxsuprine hydrochloride	579-56-6	99.7	1.8
9	Brombuterol	41937-02-4	100.5	1.8
10	Bambuterol hydrochloride	81732-46-9	99.9	1.8
11	Mabuterol hydrochloride	54240-36-7	100.1	1.8
12	Dopamine hydrochloride	62-31-7	100.3	1.8

Signature:

Prepared by:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Sep 07, 24

Date: Sep 07, 24

Date: Sep 07, 24



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

Page 1 of 6



NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
13	Penbutolol	36507-48-9	99.9	1.8
14	Zilpaterol	119520-05-7	100.2	1.8
15	Fenoterol hydrobromide	1944-12-3	99.6	1.8
16	Phenylethanolamine A	1346746-81-3	100.5	1.8
17	Mapenterol hydrochloride	54238-51-6	100.1	1.8
18	Metaproterenol hemisulfate salt	5874-97-5	99.8	1.8

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Directions:

1. General description: This product was dissolved in Methanol and sub-packed in ampoule bottles. The outer packaging is plastic cylinder.
2. Characterization strategy: Certified reference materials were selected as raw materials. Characterization was based on the mass and volume of the components used in the preparation process. external standard method was used to verify the prepared value.
3. Metrological traceability: Through the use of raw materials with traceable purity values and tested/calibrated quality or volume measures, certified value results are ultimately traceable to SI basic units of mass kilogram (kg) and national statutory volume the unit of measurement liter (L).
4. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.
5. Minimum sample size: For once use only.
6. Instructions for handling and correct use: Please shake thoroughly before use to ensure homogeneous.

Document Version:

Revision No.	Date	Reason for Revision
01	Sep 07, 24	First release.