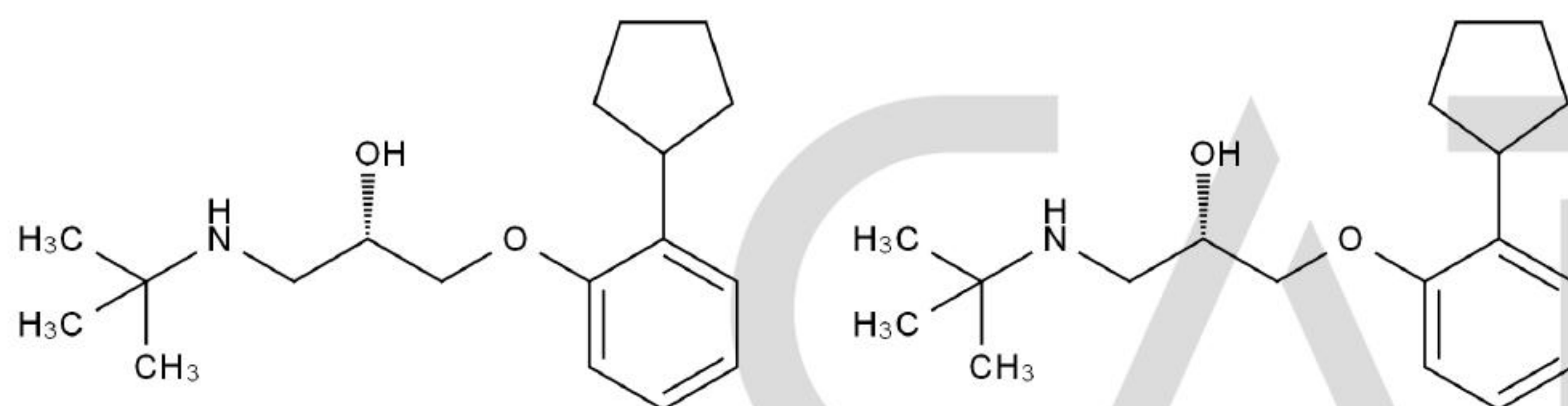
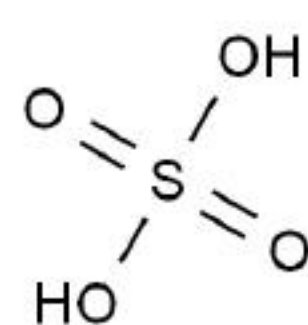


Certificate of Analysis

Reference Material & Standard

Product Name:	(S)-Penbutolol Sulfate	Catalogue Number:	CCAD300624
Synonyms:	N/A	Lot Number:	0308-RE-0022
CAS Number:	38363-32-5	Expiry Date:	Feb 12, 2027
Molecular Formula:	2*C18H29NO2 H2O4S	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	2*291.43 98.08		
Chemical Structure:			



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS	Confirmed
Purity	HPLC	99.3%
Uncertainty		±2.0%

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.

Signature:

Prepared by: 吴炫校

Reviewed by: *Hin Lam*

Aporoved by General Manager:

David

Date: Feb 13, 2023

Date: Mar 10, 2023

Date: Mar 10, 2023

