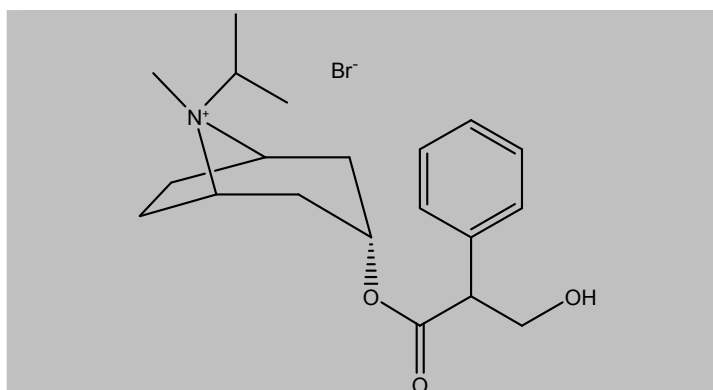


Certificate Of Analysis
Quality Control Testing and Research ApplicationCOA Preparation Date: 19/09/2013
COA Revision Date: 19/09/2016

Product: Ipratropium bromide
Cat. No.: BG0221
Batch No.: 0221BG/01
Chemical Name: [(1*R*,5*R*)-8-Methyl-8-propan-2-yl-8-azoniabicyclo[3.2.1]octan-3-yl] 3-hydroxy-2-phenylpropanoate bromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₃₀BrNO₃
Batch Molecular Weight: 412.36
CAS No.: [22254-24-6]
Physical Appearance: White solid
Melting Point: 232° C
Solubility: Soluble to 50 mM in water
Storage: RT
Batch Molecular Structure:



Product Description: Muscarin receptor antagonist. *N*-Isopropyl salt of Atropine, that is used as bronchodilator.

References: 1. Fryer and Maclagan (1987) Eur J Pharmacol 139:187

- CAUTION - Not fully tested. For Research use only. Not for human use. -



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BG0221 Ipratropium bromide

2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: Sulphated Ash: 0.01% (complies); Heavy Metals: < 10 ppm (complies); HPLC Assay: 99.6% (complies).

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