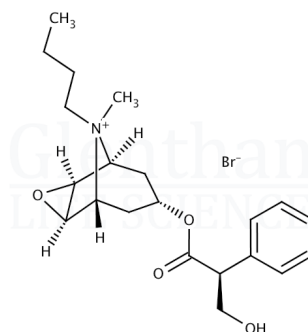


Certificate of Analysis

Product Name Scopolamine butylbromide, EP grade
Glentham Code GP6962
CAS Number 149-64-4
EINECS 205-744-1
MDL Number MFCD00078561
PubChem SID 310279923
Batch Number 112LGE

Molecular Weight 440.37
Molecular Formula $C_{21}H_{30}BrNO_4$
Storage Temp. +20°C



Property	Specification	Batch 112LGE
Physical Description	White or almost white crystalline powder	Conforms
Identification (IR)	To conform to standard	Conforms
Identification	D, E, F according to EP	Conforms
Specific Optical Rotation	-18.0 - -20.0 ° (c=5, water)	-19.39°
Melting Point	139.0 - 141.0 °C	140.2°C
Solubility (5% in water)	Clear, colourless solution	Conforms
pH (5% in water)	5.5 - 6.5	6.05
Impurity A	≤ 0.10% (HPLC)	Not detected
Impurities B, C, D, E, F, G	≤ 0.20% (each, HPLC)	Not detected
Any Other Individual Impurity	≤ 0.10% (HPLC)	Not detected
Total Impurities	≤ 0.40% (HPLC)	0.08%
Sulphated Ash	≤ 0.1%	0.06%
Loss on Drying	≤ 2.5% (105°C)	0.22%
Assay (Titration)	98.0 - 101.0 % (dried substance)	99.60%
Pharmacopoeia Specification(s)	EP	Conforms to EP

Specification Version v1.1
Manufacture Date 2018-02-01
Re-Test Date 2029-03-12

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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