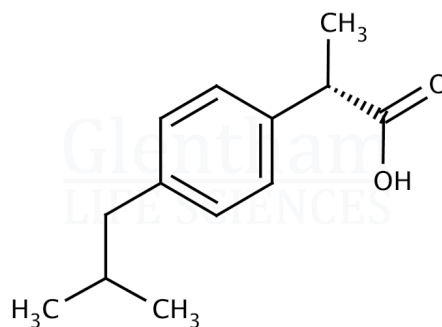


Certificate of Analysis

Product Name (S)-(+)-Ibuprofen
Glentham Code GP9058
CAS Number 51146-56-6
MDL Number MFCD00069289
PubChem SID 310275111
Batch Number 943NUX

Molecular Weight 206.28
Molecular Formula $C_{13}H_{18}O_2$
Storage Temp. +20°C



Property	Specification	Batch 943NUX
Physical Description	White powder	White powder
Identification (IR)	To conform to standard	Conforms to standard
Melting Point	49.0 - 54.0 °C	52.3°C
Specific Optical Rotation ($[\alpha]_{20/D}$)	+55 - +60 ° (c=5, ethanol)	57.9°
Chloride (Cl)	≤ 0.01%	≤ 0.01%
Residue on Ignition	≤ 0.1%	0.03%
Heavy Metals	≤ 10ppm	≤ 10ppm
(R)-(-)-Ibuprofen	≤ 1.5%	0.5%
Loss on Drying	≤ 0.5%	0.03%
Assay	98.5 - 101.0 % (dried basis)	100.1%

Specification Version v1.0
Manufacture Date 2023-12-18
Re-Test Date 2031-01-12

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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