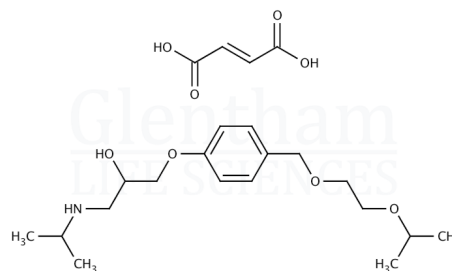


Certificate of Analysis

Product Name	Bisoprolol hemifumarate salt
Glentham Code	GP0667
CAS Number	104344-23-2
MDL Number	MFCD00792743
PubChem SID	310267917
Batch Number	592XHQ

Molecular Weight	383.49
Molecular Formula	$C_{18}H_{31}NO_4 \cdot 5C_4H_4O_4$
Storage Temp.	+20°C



Property	Specification	Batch 592XHQ
Physical Description	White to almost white powder	White powder
Solubility (2% in DMSO)	Clear, colourless solution	Conforms
Melting Point	100.0 - 105.0 °C	101.5 - 102.7 °C
Assay	98.0 - 102.0 %	99.7%

Specification Version	v1.0
Manufacture Date	2020-01-12
Re-Test Date	2027-07-21

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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