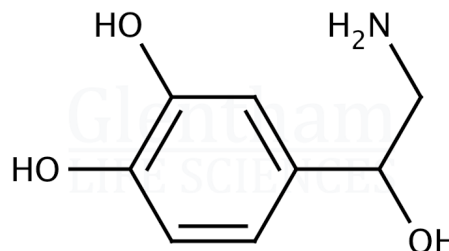


## Certificate of Analysis

Product Name	L-Noradrenaline
Glentham Code	GK0019
CAS Number	51-41-2
EINECS	200-096-6
MDL Number	MFCD00025592
PubChem SID	310278160
Batch Number	814SVB
Molecular Weight	169.18
Molecular Formula	$C_8H_{11}NO_3$
Storage Temp.	-20°C



Property	Specification	Batch 814SVB
Physical Description	White, off-white or faint yellow-brown powder	
Solubility (5% in 0.5M HCl)	Clear to faintly turbid, colourless to faint yellow-brown solution	Clear faint yellow solution
Specific Optical Rotation ( $[\alpha]_{20/D}$ )	-44 - -48 ° (c=2, 0.5M HCl)	-47.3°
Wavelength of Maximum Absorption ( $\lambda_{max}$ )	220 - 222 nm	221.5nm
Water	≤ 6.0%	0.8%
Assay	98.0 - 102.0 % (dried basis)	99.5%

Specification Version	v1.0
Manufacture Date	2019-10-01
Re-Test Date	2028-03-06

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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