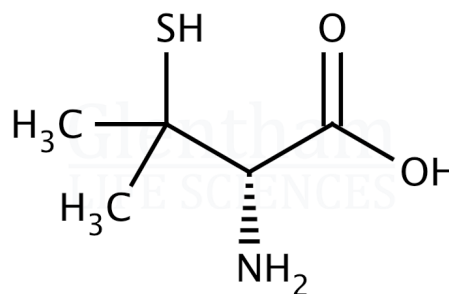


## Product Specification

Product Name	D-Penicillamine, USP grade
Glentham Code	GA5612
CAS Number	52-67-5
EINECS	200-148-8
MDL Number	MFCD00064302
PubChem SID	310278558
Molecular Weight	149.21
Molecular Formula	C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S
Storage Temp.	+4°C



Property	Specification
Physical Description	White to off-white powder or solid
Assay	97.0 - 102.0 %
Specific Optical Rotation	-60.5 - -64.5 °
pH	4.5 - 5.5
Loss on Drying	≤ 0.5%
Residue on Ignition	≤ 0.1%
Heavy Metals	≤ 20ppm
Mercury (Hg)	≤ 20ppm
Limit of Penicillin Activity	≤ 200IU/mg
Organic Impurities	Penicillamine disulfide: ≤1.0%
Residual Solvents	n-Butanol: ≤ 5000ppm, Methanol: ≤ 3000ppm
Pharmacopoeia Specification(s)	USP

Specification Version	-	v1.0
Date Created	-	2014-04-10

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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