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## **Certificate of Analysis**

Product NameD-Proline GM9107Glentham CodeGM9107CAS Number $344-25-2$ EINECS $206-452-7$ MDL NumberMFCD00064317PubChem SID $310279252$ Batch Number $481JOA$ Molecular Weight $115.13$ Molecular Formula $C_5H_9NO_2$ Storage Temp. $+20^\circ$ CPropertySpecificationPropertySpecificationAssay98.0 - 101.0 %Passay98.0 - 101.0 %Loss on Drying $\leq 0.5\%$ Chloride (Cl) $\leq 0.5\%$ Chloride (Cl) $\leq 0.1\%$ Chloride (As) $\leq 2ppm$ ConformsHeavy Metals (as Pb) $\leq 10ppm$ Specific Optical Rotation (IJ ZD/D)Hassay $\leq 10ppm$ Specific Optical Rotation (IJ ZD/D)Hassay $\leq 10pc$ Hassay $\leq 10pc$ Specific Optical Rotation (IJ ZD/D)Hassay $\leq 10pc$ Specific Optical Rotation (IJ ZD/D)Specific Optical Rotation (IJ ZD/D)Specific Optical Rotation (IJ ZD/D)HassayHassayHassayHassayHassayHassayHassayHassayHassay <t< th=""><th></th><th></th><th></th><th></th></t<>				
PropertySpecificationBatch 481JOAPhysical DescriptionWhite to off-white powderWhite powderAssay98.0 - 101.0 %99.44%Loss on Drying≤ 0.5%0.03%Residue on Ignition≤ 0.5%0.09%Chloride (Cl)≤ 0.1%ConformsArsenic (As)≤ 2ppmConformsHeavy Metals (as Pb)≤ 10ppmConforms	Glentham Code CAS Number EINECS MDL Number PubChem SID Batch Number Molecular Weight Molecular Formula	GM9107 344-25-2 206-452-7 MFCD000643 310279252 481JOA 115.13 C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub>	17	O OH NH
Physical DescriptionWhite to off-white powderWhite powderAssay98.0 - 101.0 %99.44%Loss on Drying≤ 0.5%0.03%Residue on Ignition≤ 0.5%0.09%Chloride (Cl)≤ 0.1%ConformsArsenic (As)≤ 2ppmConformsHeavy Metals (as Pb)≤ 10ppmConforms				
Assay     98.0 - 101.0 %     99.44%       Loss on Drying     ≤ 0.5%     0.03%       Residue on Ignition     ≤ 0.5%     0.09%       Chloride (Cl)     ≤ 0.1%     Conforms       Arsenic (As)     ≤ 2ppm     Conforms       Heavy Metals (as Pb)     ≤ 10ppm     Conforms	Property		Specification	Batch 481JOA
Loss on Drying≤ 0.5%0.03%Residue on Ignition≤ 0.5%0.09%Chloride (Cl)≤ 0.1%ConformsArsenic (As)≤ 2ppmConformsHeavy Metals (as Pb)≤ 10ppmConforms	Physical Description		White to off-white powder	White powder
Residue on Ignition     ≤ 0.5%     0.09%       Chloride (Cl)     ≤ 0.1%     Conforms       Arsenic (As)     ≤ 2ppm     Conforms       Heavy Metals (as Pb)     ≤ 10ppm     Conforms	Assay		98.0 - 101.0 %	99.44%
Chloride (Cl) ≤ 0.1% Conforms   Arsenic (As) ≤ 2ppm Conforms   Heavy Metals (as Pb) ≤ 10ppm Conforms	Loss on Drying		≤ 0.5%	0.03%
Arsenic (As)≤ 2ppmConformsHeavy Metals (as Pb)≤ 10ppmConforms	Residue on Ignition		≤ 0.5%	0.09%
Heavy Metals (as Pb) ≤ 10ppm Conforms	Chloride (Cl)		≤ 0.1%	Conforms
	Arsenic (As)		≤ 2ppm	Conforms
Specific Optical Rotation ([α]20/D)     +82.5 - +86.5 ° (c=1 in H2O)     +82.8 °	Heavy Metals (as Pb)		≤ 10ppm	Conforms
	Specific Optical Rotation ([ $\alpha$ ]20/D)		+82.5 - +86.5 ° (c=1 in H2O)	+82.8 °

Specification Version	v1.0
Manufacture Date	2017-01-22
Re-Test Date	2025-11-01

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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