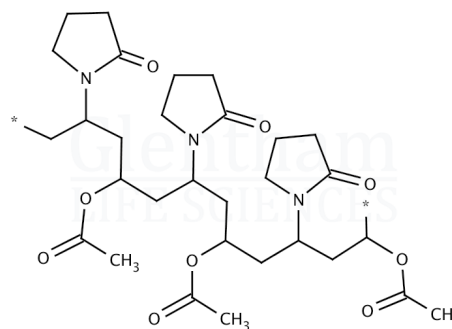


Certificate of Analysis

Product Name	Kollidon VA 64
Glentham Code	GX9280
CAS Number	25086-89-9
EINECS	-
MDL Number	MFCD00134018
Batch Number	882LDD
Molecular Weight	$(111.1)n + (86.1)m$
Molecular Formula	$(C_6H_9NO)_n \cdot (C_4H_6O_2)_m$
Storage Temp.	+20°C



Property	Specification	Batch 882LDD
Physical Description	White or yellow-white powder of flakes	White powder
Identification (IR)	To conform to standard	Conforms
Identification	To conform to all Ph. Eur., USP tests	Conforms
Solubility (10% in water)	Clear or slightly opalescent, colourless to pale yellow or pale red solution	Conforms
Appearance of Solution	Ph. Eur. Colour $\leq$ B5/BY5/R5. Not more opalescent than reference standard III.	Conforms
pH	3.0 - 7.0	3.8
Peroxides	$\leq$ 400ppm	40ppm
Aldehydes	$\leq$ 500ppm	17ppm
Saponification Value	230 - 270 mgKOH/g	235mgKOH/g
Viscosity	25.2 - 30.8 (K-value)	26.7
Relative Viscosity (1% in water)	1.178 - 1.255	1.197
Heavy Metals	$\leq$ 10ppm	Conforms
Residue on Ignition	$\leq$ 0.1%	Conforms
Loss on Drying	$\leq$ 5.0%	1.7%
Acetic Acid	$\leq$ 4000ppm (residual solvent)	1100ppm
2-Pyrrolidone	$\leq$ 0.5%	0.2%
Vinylpyrrolidone	$\leq$ 10ppm	$\leq$ 2ppm
Vinylacetate	$\leq$ 10ppm	$\leq$ 3ppm
Sum of Vinylpyrrolidone and Vinylacetate	$\leq$ 0.1%	Conforms
Nitrogen Content	7.0 - 8.0 % (dried substance)	7.8%
Water (KF)	$\leq$ 5.0%	1.6%
Polymerised Vinylacetate	35.3 - 41.4 %	36.7%
Pharmacopoeia Specification(s)	Ph. Eur., USP	Conforms

Specification Version	v1.0
Manufacture Date	2021-10-03
Re-Test Date	2030-01-18

Certificate of Analysis

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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