

# ALLANTOIN

## CERTIFICATE OF ANALYSIS

Lot No. : ES1911303

Test	Result	Limits / Specifications	Dimension / Units
<b>Appearance</b> Visual observation	white to off-white crystalline powder	white to off-white crystalline powder	
<b>Identity</b> Ph.Eur.2.2.24/USP197K	corresponds	corresponds	
<b>Appearance of solution</b> Visual observation	Clear and colourless	Clear and colourless	
<b>pH (0.5% in water at 20 °C)</b> Potentiometry	4.3	4.0 to 6.0	
<b>Loss on drying</b> Ph.Eur.2.2.3/USP731	0.1	max. 0.1	% w/w
<b>Assay</b> Ph.Eur.2.2.20/USP541	99.3	99.0 to 101.0	% w/w
<b>Sulphated ash</b> Ph.Eur.2.4.14/USP281	0.1	max. 0.1	%
<b>Optical rotation</b> Ph.Eur.2.2.7/USP781A	-0.1	-0.10 to 0.10	°
<b>Reducing substances</b> Proceed as described in Ph.Eur. and USP	conforms	conforms to Ph.Eur. and USP	
<b>Acidity/Alkalinity</b> Proceed as describing in Ph.Eur. and USP	conforms	conforms to Ph.Eur. and USP	
<b>Related substances</b> Ph.Eur.2.2.27/USP621	conforms	conforms to Ph.Eur. and USP	
<b>Heavy metals</b>			
Lead EP/AAS	corresponds*	max. 5	ppm
Cadmium EP/AAS	corresponds*	max. 1	ppm
Mercury EP/AAS	corresponds*	max. 1	ppm
Cobalt EP/AAS	corresponds*	max. 1	ppm
Chrome EP/AAS	corresponds*	max. 1	ppm
Nickel EP/AAS	corresponds*	max. 1	ppm
Total (as lead) EP/AAS	corresponds*	max. 10	ppm
<b>Arsenic</b> EP/AAS	corresponds*	max. 2	ppm

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<b>Microbial purity</b>			
Total aerobic plate count EP 2.6.12/2.6.13	corresponds*	max. 100	CFU/g
Total yeast and moulds EP 2.6.12/2.6.13	corresponds*	max. 100	CFU/g
Enterobacteria EP 2.6.12/2.6.13	corresponds*	<10	CFU/g
Pseudomonas aeruginosa EP 2.6.12/2.6.13	corresponds*	negative in 1 g	
Staphylococcus aureus EP 2.6.12/2.6.13	corresponds*	negative in 1 g	
Escherichia coli EP 2.6.12/2.6.13	corresponds*	negative in 1 g	
Candida albicans EP 2.6.12/2.6.13	corresponds*	negative in 1 g	

\*) checked at regular intervals