

## **Certificate of Analysis**

Product name:Cholinii dihydrogenocitrasBatch number / Weight:21K09-B16-213798 / 100 GAnalysed according to:Internal

Tests	Requirement	Result	Unit	Standard remark
Appearance	White, crystalline powder	Conform		
Identification A	101 - 105	104,8	°C	Melting point
Identification B	Conform	Conform		
Identification C	Conform	Conform		
Identification D	Conform	Conform		
Appearance of solution	Clear / colourless	Conform		
Acidity	Conform	Conform		
рН	3,5 - 4,5	3,7	%	25%
Trimethylamine	Conform	Conform		
Chlorides	<=250	<250	ppm	
Ammonium salts	Conform	Conform		
Heavy metals	<=20	<20	ppm	
Loss on drying	<=1,0	0,5	%	
Sulphated ash	<=0,1	0,1	%	
Assay Choline dihydrogencitrate	98,0 - 101,0	99,8	%m/m	Dried
TSE/BSE-statement:	No contamination with TSE/BSE-risk materials	Conform		Data producer
Metallic residues	CHMP/ICH/353369/2013	Conform		Data producer
Residual solvents	CPMP/ICH/82 260/06	Conform		Data producer

Analysis performed by the authorized lab.

Release: Agnieszka Pszczółka Qualified Person

26-05-2022

Expiration: 22-07-2023

Conclusion: APPROVED

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