

## Certificate of Analysis

**Productname:** Cholinii dihydrogenocitras  
**Number of analysis/Inspection Code:** 1 / KEUR-186662B  
**Batchnumber:** 20H11-F03-374373  
**Reference code / No.:** 2439 / 3020378  
**Analysed according to:** INTERN

Tests	Requirement	Result	Unit	Standard remark
Appearance	White, crystalline powder	Conform		Hygroscopic
Identification A	101 - 105	104	°C	Melting point
Identification B	Conform	Conform		
Identification C	Conform	Conform		
Identification D	Conform	Conform		
Appearance of solution	Clear / colourless	Conform		
Acidity	Conform	Conform		
pH	3,5 - 4,5	3,7		25%
Trimethylamine	Conform	Conform		
Chlorides	<=250	Conform	ppm	
Ammonium salts	Conform	Conform		
Heavy metals	<=20	Conform	ppm	
Loss on drying	<=1,0	0,5	%	
Sulphated ash	<=0,1	0,1	%	
Metallic residues	CHMP/ICH/353369/2013	Conform		Data producer
Residual solvents	CHMP/ICH/82260/2006	Conform		Data producer
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
Remark	Food quality!	.		

Analysis performed by the authorized laboratory Eurofins.

Release:  
Paul Hofman  
Pharmacist - Qualified Person

10/28/20

Expiration: 07-2023

Conclusion: APPROVED

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