

# Certificate of Analysis

product name: L(+)-Ascorbic Acid  
 product number: 100468  
 CAS Number: 50-81-7  
 batch: 1454642 1010  
 Formula:  $C_6H_8O_6$

## batch values

Assay (iodometric)	99.7 - 100.5	%
Identity (IR-spectrum)	conforms	
Appearance	white or almost white, crystalline powder	
Appearance of solution (50 g/l CO <sub>2</sub> -free water)	clear ( $\leq 3$ NTU) and not so intense in colour than reference solution BY <sub>7</sub>	
pH (50 g/l CO <sub>2</sub> -free water)	2.1 - 2.6	
Spec. rotation $[\alpha]_{20/D}$ (100 g/l, water)	+20.5 - +21.5 °	
Chloride (Cl)	$\leq 50$	ppm
Sulfate (SO <sub>4</sub> )	$\leq 20$	ppm
Cu (Copper)	$\leq 5$	ppm
Fe (Iron)	$\leq 2$	ppm
Heavy metals (ACS)	$\leq 10$	ppm
Oxalic acid	$\leq 0.3$	%
Related substances (HPLC) (Impurity C)	$\leq 0.15$	%
Related substances (HPLC) (Impurity D)	$\leq 0.15$	%
Related substances (HPLC) (unspecified impurities singly)	$\leq 0.10$	%
Related substances (HPLC) (sum of impurities (except impurity A and D))	$\leq 0.2$	%
Sulfated ash (600 °C)	$\leq 0.05$	%
Loss on Drying (105 °C)	$\leq 0.1$	%

This document has been produced electronically and is valid without a signature