

## CERTIFICATE OF ANALYSIS

Product Name : L-ASCORBIC ACID	Release Date : 1-OCT-2025
Lot No. : PEL/TC/244789/25	Mol. Weight : 176.12
Mol. Formula : C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>	CAS No. : 50-81-7
Code No. : PEL150	Exp. Date : Feb-2028
Mfg. Date : Mar-2025	UN No. : -
HAZ. / P.G. : -	

Sr.	Tests	Specifications	Results
1	Appearance	A white to very pale yellow crystalline powder or colourless crystals; odourless. On exposure to light it gradually darkens.	A off white crystalline powder
2	Assay	99.5-100.5%	99.98%
3	Identity (IR)	To confirm the structure	Complies
4	Identification (as per USP, IP)	To comply the tests	Complies
5	Appearance of solution	To comply IP test	Complies
6	Specific optical rotation ( $[\alpha]_{20/D}$ ; 10% solution)	+20.5° to +21.5°	+21.061°
7	Light absorption	Absorbance at about 244 nm is about 0.56	Complies
8	Oxalic acid	Max 0.3%	< 0.3%
9	Loss on drying	Max 0.1%	0.097%
10	Sulphated ash	Max 0.1%	0.05%
11	Chloride (Cl)	Max 0.01%	0.004%
12	Sulphate (SO <sub>4</sub> )	Max 0.002%	0.0014%
13	Copper (Cu)	Max 0.0005%	Not detected
14	Heavy metal (as Pb)	Max 0.001%	0.000002%
15	Iron (Fe)	Max 0.0002%	0.0001%
16	Lead (Pb)	Max 0.001%	0.000002%

*Based on the evaluation, the product meets all applicable PELICAN (Trust Lies Here) specifications.*


  
**Pelican**  
 (Trust lies here)