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### Certificate of Analysis

Product	Ascorbic Acid	Date of Certificate	09/10/2012
Batch No.	12094P1071	Date of Expiry	09/10/2015
Quantity	25kg ± 300	Date of Manufacture	09/17/2012

Analysis Contents	Analysis Standard	Analysis Results
Appearance	White or Almost White Crystalline Powder	Pass
Identification	Positive Reaction	Positive
Melting Point	About 191°C	191°C
pH (With 2% Water Solution)	2.4 - 2.8	2.6
pH (With 5% Water Solution)	2.1 - 2.6	2.4
Clarity of Solution	Clear	Clear
Color of Solution	≤ BY7	≤ BY7
Copper	≤ 5ppm	≤ 5ppm
Heavy Metals	≤ 10ppm	≤ 10ppm
Lead	≤ 2ppm	≤ 2ppm
Iron	≤ 2ppm	≤ 2ppm
Cadmium	≤ 1ppm	≤ 1ppm
Arsenic	≤ 3ppm	≤ 3ppm
Mercury	≤ 0.1ppm	≤ 0.1ppm
Zinc	≤ 25ppm	≤ 25ppm
Oxalic Acid	≤ 0.2%	≤ 0.2%
Sulphate Ash (Residue on Ignition)	≤ 0.1%	0.04%
Specific Optical Rotation	20.5° - 21.5°	21.0°
Assay	99.0% - 100.5%	99.9%
Loss on Drying	≤ 0.4%	0.04%
Residual Solvents	Methanol: NMT 3000 ppm	≤ 200ppm
Related Substances	Impurity C: ≤ 0.1%	Complies
	Impurity D: ≤ 0.05%	Complies
	Any Other Unspecific Impurities: ≤ 0.1%	Complies
	Total Impurities: ≤ 0.2%	Complies



**Conclusion:** The Above Product Conforms to BP2012, USP34, EP7.0, FCC7&2008/84/EC/E300