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TYPICAL ANALYSIS / SPECIFICATION

PRODUCT : VITAMIN C (ASCORBIC ACID)
SHELF LIFE : THREE YEARS SUBJECT TO CORRECT STORAGE

TEST ITEMS	SPECIFICATIONS	RESULTS
Characteristics	White crystalline powder	Conforms
Identification	Positive	Positive
Melting point	About 190 deg C	191.2 deg C
pH	2.1 – 2.6	2.24
Clarity of solution	Clear	Clear
Colour of solution	BY7 max.	BY7 max.
Copper	5 ppm max.	5 ppm max.
Heavy metals	10 ppm max.	5 ppm max.
Iron	2 ppm max.	2 ppm max.
Oxalic acid	0.2% max.	0.2% max.
Sulphate ash	0.1 max.	0.1% max.
Specific optical rotation	+20.5 deg to +21.5 deg	+21.45 deg
Organic volatile impurities	Conforms	Conforms
Assay	99.0 – 100.5%	99.94%

Conclusion: The material conforms to BP/USP