

### Certificate of Analysis

**Product: Ascorbic Acid Powder, Kosher, Halal**  
**Item Number: ASAPU**  
**Grade: USP/FCC**  
**Lot Number: 5000970/1.1**  
**Manufacture Date: 01/22/2024**  
**Expiration Date: 01/21/2028**  
**Country of Origin: China**

Tested Property	Specification	Analysis
Assay	99.0%~100.5%	99.7
Characteristics	White or almost white crystalline powder or colorless crystals	Pass
Solubility	Soluble in water, slightly soluble in ethanol, insoluble in chloroform	Pass
Identification A	Positive reaction	Pass
Identification B	IR	Pass
Melting point	About 190°C	190°C
pH (5%, W/V)	2.1~2.6	2.3
Loss on drying	≤0.1%	Pass
Residue on ignition	≤0.1%	<0.1%
Clarity of solution	Clear	Pass
Heavy metal	≤10ppm	<10ppm
Copper	≤5ppm	<5ppm
Iron	≤2ppm	<2ppm
Cadmium (ICP-MS)	≤1ppm	<1ppm
Mercury (ICP-MS)	≤1ppm	<1ppm
Lead (ICP-MS)	≤1ppm	<1ppm
Arsenic (ICP-MS)	≤1ppm	<1ppm
Total Plate Count	≤1000cfu/g	<1000cfu/g
Yeast and Molds	≤100cfu/g	<100cfu/g
Escherichia coli	Negative	Pass

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Salmonella	Negative	Pass
Staphylococcus Aureus	Negative	Pass
Residual solvents	Meets the requirement	Pass
Other Impurities	<1.0%	Pass
Specific Rotation	+20.5° - +21.5°	+21.0°

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Note: The information and recommendations of Lab Alley concerning this product are based upon laboratory tests and experience. To the best of our knowledge and belief these are true and accurate, however Lab Alley assumes no obligation or liability for the information in this document. Since conditions of actual use are beyond our control, any recommendations or suggestions regarding merchantability and fitness for particular purposes are made without warranty, expressed or implied.

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