

CERTIFICATE OF ANALYSIS

Product Name	p-Aminobenzoic acid
Batch Number	CS0124090201
Batch Quantity	100 kg
Package	25 kg / paper drum
Date of Manufacture	Sep. 21, 2024
Date of Expiry	Sep. 20, 2027
Testing Method	Refer to USP 43 testing method

Physical & Chemical Characteristics

Analysis Item	Specification	Result
Characters	White or light-yellow crystal/crystalline powder without smell	White crystalline powder without smell
Identification – IR	IR spectrum consistent with reference standard	Conforms
Identification – Solution	Solution max absorbance/retention time consistent with reference	Conforms
Loss on drying	NMT 0.2%	0.12%
Residue on ignition	NMT 0.1%	0.04%
Assay	98.0–102.0%	99.79%

Organic Impurities (HPLC)

Analysis Item	Specification	Result
Nitrobenzoic acid	NMT 0.2%	Not detected
Anisic acid	NMT 0.2%	Not detected
Any unspecified impurity	NMT 0.1%	0.01%
Total impurities	NMT 0.5%	0.01%

Aromatic Amines (GC)

Analysis Item	Specification	Result
Aniline (GC)	NMT 10 ppm	Not detected
o-Toluidine (GC)	NMT 10 ppm	0.00315 ppm

Heavy Metals

Analysis Item	Specification	Result
Lead (Pb)	≤1 ppm	Not detected
Cadmium (Cd)	≤1 ppm	Not detected
Mercury (Hg)	≤0.1 ppm	Not detected
Arsenic (As)	≤1 ppm	Not detected

Microbiological Tests

Analysis Item	Specification	Result
Aerobic plate count	NMT 100 cfu/g	<100 cfu/g
Yeasts & Molds	NMT 100 cfu/g	<10 cfu/g
E. coli	Negative	Negative
Coliforms	NMT 100 cfu/g	<10 cfu/g
Salmonella	Negative	Negative