

Certificate of Analysis

Product: Caffeine Anhydrous
Item Number: CAFU
Grade: USP
Lot Number: 2205798
Manufacture Date: 05/05/2022
Expiration Date: 05/04/2026
Country of Origin: China

Tested Property	Specification	Analysis
Appearance	White crystalline powder	Pass
Assay, (dried basis) HPLC	98.5 - 101.0%	99.5
Assay, (dried basis)	98.5 - 101.5%	99.9
Identification by IR	Conforms to reference spectrum	Passes
Identification by HPLC	Conforms to the chromatogram of the standard preparation	Passes
Appearance of solution	Clear and Colorless	Passes
Melting Point	234 - 239 °C	236.6 °C
Acidity (0.01mol/L NaOH)	≤ 0.002 ml	Passes
Organic Impurities: Individual impurities	≤ 0.1%	0.05
Total impurities	≤ 0.1%	0.08
Heavy metal (on Pb basis)	≤ 0.001%	<0.001
Loss on drying	≤ 0.5%	0.1
Residue on ignition	≤ 0.1%	0.05
Sulfated ash	≤ 0.1%	0.05
Sulfate	≤ 500 ppm	<500
Residual Solvents (Chloroform)	≤ 60 ppm	Conforms

This product is tested in accordance with BP2021/EP10.0/USP2021/R1-CEP 2003-027-Rev03.

Caffeine Anhydrous

Phone: 512-668-9918, Fax: 512-886-4008,
 E-mail: Customerservice@laballey.com,
www.laballey.com,

12501 Pauls Valley Road, Suite A, Austin, Texas 78737.

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