

**MP Biomedicals, LLC**29525 Fountain Parkway  
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## Certificate of Analysis

**Product Description:** Caffeine Monohydrate  
**Catalog Number:** 101194  
**Lot:** SR02599**Formula:** C<sub>8</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub>·H<sub>2</sub>O**CAS #:** 58-08-2**Physical Description:** White Powder**Formula Weight:** 212.2**Storage:** 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	230 - 240°C	234.2 - 234.9°C
pH (1% aq soln)	6 - 7.5	6.64
Moisture	4 - 8%	6.42%
UV/Vis: λ max (water)	271 - 273 nm	272.7 nm

Residue on Ignition: 0.06%

Heavy Metals: &lt;10 ppm

Assay on anhydrous basis: 99.04%

Organic impurities:

- Individual impurities: 0.0387%

- Total impurities: 0.0387%

Residual solvent:

- Methanol: Nil

- Chloroform: Nil

- Methyl isobutyl ketone: Nil

Recommended Retest Date (MM/DD/YYYY): 04/01/2024



04/03/2020 - John Huang, PhD

MP Biomedicals, LLC.

Quality Control Manager

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