

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : CAFFEINE AR (ANHYDROUS)**

<b>CAS No</b>	: 58-08-2	<b>Product code</b>	: 22420
<b>Mol. Formula</b>	: C <sub>8</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub>	<b>Batch No.</b>	: MCAR-00056
<b>Mol. WT</b>	: 194.20	<b>Mfd.</b>	: April 2024
<b>Date of analysis</b>	: 23/04/24	<b>Exp.</b>	: March 2029

S.R	Test	Specification	Observation
1	<b>Description</b>	White to almost white powder	White powder
2	<b>Assay</b>	99% w/w min	99.70% w/w
3	<b>Melting point</b>	235 <sup>0</sup> to 237 <sup>0</sup> c	236.4 <sup>0</sup> c
4	<b>Water insoluble matter</b>	0.005% max	0.003%
5	<b>Acidity</b>	0.5 ml N% max	< 0.5 ml N%
6	<b>Loss on drying (at 80<sup>0</sup>c) for 4 hrs</b>	0.5% max	0.40%
7	<b>Sulphated ash</b>	0.05% max	0.02%
8	<b>Copper (Cu )</b>	0.0002% max	< 0.0002%
9	<b>Iron (Fe)</b>	0.0002 % max	< 0.0002%
10	<b>Lead (Pb)</b>	0.0002 % max	< 0.0002%
11	<b>Zinc (Zn)</b>	0.0002 % max	< 0.0002%
12	<b>Theobromine (C<sub>7</sub>H<sub>8</sub>N<sub>4</sub>O<sub>2</sub>)</b>	0.2 % max	< 0.2%

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**

**[QC Incharge]**

**CHEMIST  
(Swati)**

**HEAD-QUALITY ASSURANCE  
(G.G.Salian)**

**Note:** Computer generated image requires no sign.

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