

## CERTIFICATE OF ANALYSIS

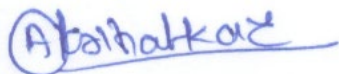
**PRODUCT NAME : CAFFEINE AR (ANHYDROUS)**

|                         |  |                     |              |
|-------------------------|--|---------------------|--------------|
| <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-00192 |
| <b>Mol. WT</b>          | : 194.20   | <b>Mfd.</b>         | : May 2024   |
| <b>Date of analysis</b> | : 23/05/24   | <b>Exp.</b>         | : April 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                            | 99.42% w/w           |
| 3   | <b>Melting point</b>  | 235 <sup>0</sup> to 237 <sup>0</sup> c | 236.3 <sup>0</sup> c |
| 4   | <b>Water insoluble matter</b>   | 0.005% max                             | 0.004%               |
| 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                               | 0.23%                |
| 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]**



**CHEMIST  
(Asmita)**

**[QC Incharge]**



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

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

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