

# G. AMPHRAY LABORATORIES

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Sambava Chambers, 4<sup>th</sup> Floor, Sir P. M. Road, Mumbai – 400 001, INDIA.

Web : [www.amphray.com](http://www.amphray.com)

## CERTIFICATE OF ANALYSIS

|                     |  |                  |              |
|---------------------|--|------------------|--------------|
| NAME OF PRODUCT     | : SODIUM CITRATE USP (TRISODIUM CITRATE) |                  |              |
| BATCH NUMBER        | : SOC-056/08                             | DATE OF RECEIPT  | : 21.01.2008 |
| DATE OF MANUFACTURE | : JANUARY, 2008                          | DATE OF ANALYSIS | : 21.01.2008 |
| DATE OF EXPIRY      | : DECEMBER, 2012                         | SAMPLE SIZE      | : 100 GMS    |
| BATCH SIZE          | : 1,000 KGS.                             | Q. C. NO.        | : G-08/1027  |

### RESULTS OF ANALYSIS

|                            |   |               |
|----------------------------|---|---------------|
| DESCRIPTION                | : A White Crystalline Powder.   |               |
| SOLUBILITY                 | : Freely soluble in water   |               |
| IDENTIFICATION             | : (A) Complies.<br>(B) Complies.  |               |
| ALKALINITY                 | : Complies, No pink colour is produced.<br>(Max. 0.2 ml 0.1N H <sub>2</sub> SO <sub>4</sub> )   |               |
| HEAVY METALS               | : Complies.   | (Max. 10 ppm) |
| TARTRATE                   | : Complies, No crystalline precipitate is formed.   |               |
| WATER                      | : 12.20 % w/w   |               |
| ASSAY (on Anhydrous Basis) | : 99.71 % of C <sub>6</sub> H <sub>5</sub> Na <sub>3</sub> O <sub>7</sub> (99.0% to 100.5% w/w) |               |

### ADDITIONAL TESTS

#### 1) Particle Size on Tyler Machine:

| MESH | % PASSING THROUGH |
|------|-------------------|
| 20   | 100.00 %          |
| 35   | 98.10 %           |
| 40   | 96.92 %           |

#### 2) Bulk Density after 50 Tapped = 1.06 g/ml

REPORT: THE ABOVE BATCH COMPLIES WITH THE PRESCRIBED STANDARDS OF QUALITY AS PER USP 31.

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AUTHORISED SIGNATORY

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## CERTIFICATE OF ANALYSIS

|                     |   |                  |              |
|---------------------|---|------------------|--------------|
| NAME OF PRODUCT     | : SODIUM CITRATE BP (TRISODIUM CITRATE) |                  |              |
| BATCH NUMBER        | : SOC-056/08                            | DATE OF RECEIPT  | : 21.01.2008 |
| DATE OF MANUFACTURE | : JANUARY, 2008                         | DATE OF ANALYSIS | : 21.01.2008 |
| DATE OF EXPIRY      | : DECEMBER, 2012                        | SAMPLE SIZE      | : 100 GMS    |
| BATCH SIZE          | : 1,000 KGS.                            | Q. C. NO.        | : G-08/1027  |

### RESULTS OF ANALYSIS

|                                    |  |                                |
|------------------------------------|--|--------------------------------|
| CHARACTERS                         | : A White Crystalline Powder.  |                                |
| SOLUBILITY                         | : Freely Soluble in water.   |                                |
| IDENTIFICATION                     | : (A) -- Complies.<br>(B) -- Complies.                                       |                                |
| ACIDITY OR ALKALINITY              | : 0.18 ml. of 0.1 M HCL<br>(Max. 0.2 ml. of either 0.1 M NaOH or 0.1 M HCL.) |                                |
| APPEARANCE OF SOLUTION             | : 10 % w/v solution is clear and colourless.                                 |                                |
| HEAVY METALS                       | : Complies   | [Max. 10 PPM ]                 |
| CHLORIDE                           | : Complies   | [Max. 50 PPM ]                 |
| OXALATE                            | : Complies   | [Max. 300 PPM ]                |
| SULPHATE                           | : Complies   | [Max. 150 PPM ]                |
| READILY CARBONISABLE<br>SUBSTANCES | : Complies   |                                |
| WATER                              | : 12.20 % w/w  | [Limit : 11.0 % to 13.0 % w/w] |
| ASSAY (ON ANHYDROUS BASIS)         | : 99.71 % of C <sub>6</sub> H <sub>5</sub> Na <sub>3</sub> O <sub>7</sub>    | [Limit : 99 % to 101.0 % ]     |

### ADDITIONAL TESTS

1) Particle Size on Tyler Machine:

| MESH | % PASSING THROUGH |
|------|-------------------|
| 20   | 100.00 %          |
| 35   | 98.10 %           |
| 40   | 96.92 %           |

2) Bulk Density after 50 Tapped = 1.06 g / ml

**REPORT : THE ABOVE BATCH COMPLIES WITH THE PRESCRIBED STANDARDS OF QUALITY AS PER BP 2008.**

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## CERTIFICATE OF ANALYSIS

|                     |  |                  |              |
|---------------------|--|------------------|--------------|
| Name of Product     | :SODIUM CITRATE EP [TRISODIUM CITRATE] |                  |              |
| BATCH NUMBER        | : SOC-056/08                           | DATE OF RECEIPT  | : 21.01.2008 |
| DATE OF MANUFACTURE | : JANUARY, 2008                        | DATE OF ANALYSIS | : 21.01.2008 |
| DATE OF EXPIRY      | : DECEMBER, 2012                       | SAMPLE SIZE      | : 100 GMS    |
| BATCH SIZE          | : 1,000 KGS.                           | Q. C. NO.        | : G-08/1027  |

## RESULTS OF ANALYSIS

|                                 |   |                |
|---------------------------------|---|----------------|
| DESCRIPTION                     | : A White Crystalline Powder.   |                |
| SOLUBILITY                      | : Freely soluble in water   |                |
| IDENTIFICATION                  | : (A) Complies.<br>(B) Complies.  |                |
| Acidity or Alkalinity           | : 0.05 ml of 0.1 M CHL<br>: (Max: 0.2 ml of either 0.1 M NaOH or 0.1 M HCL)               |                |
| Appearance of solution          | : 10% w/v solution is clear and colourless  |                |
| Heavy Metals                    | : Complies.   | (NMT: 10 ppm)  |
| Chloride                        | : Complies.   | (NMT: 50 ppm)  |
| Oxalate                         | : Complies.   | (NMT: 300 ppm) |
| Sulphate                        | : Complies.   | (NMT: 150 ppm) |
| Readily carbonisable substances | : Complies.   |                |
| Water                           | : 12.39 % w/w   | (11% to 13%)   |
| ASSAY (on Anhydrous Basis)      | : 99.65 % of C <sub>6</sub> H <sub>5</sub> Na <sub>3</sub> O <sub>7</sub> (99.0% to 101%) |                |

REPORT: THE ABOVE BATCH COMPLIES WITH THE PRESCRIBED STANDARDS OF QUALITY AS PER EP V.

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