



RIGHT CHEMISTRY. RIGHT PEOPLE



# M.L.A. Industries Pvt. Ltd. (Pharma Division)

111/230, HARSH NAGAR, KANPUR, Tel. : (0512)-2555292

Website: www.mlagroup.com, E-mail: sales@mlagroup.com

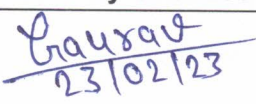
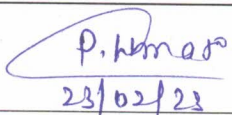
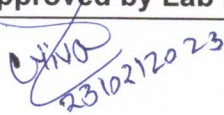
( Drug License No. UP78250000012 )

(Food Safety & Drug Administration - Govt. of Uttar Pradesh)

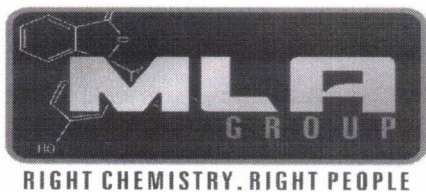
## CERTIFICATE OF ANALYSIS

|                             |                                |
|-----------------------------|--------------------------------|
| CUSTOMER : M/s              | INVOICE : Sample               |
| PRODUCT : CALCIUM CARBONATE | GRADE : IP                     |
| BATCH NO. : CC-05A022023    | DATE : 23/02/2023              |
| Date of MFG. : 05/02/2023   | Date of EXP : 5 years from MFG |

| PROPERTY                            | UNIT | SPECIFICATIONS   | TEST VALUE           |
|-------------------------------------|------|--|----------------------|
| Solubility                          | -    | Practically insoluble in water.  | Complies             |
| Description                         | -    | A fine, white, microcrystalline powder.  | Complies             |
| Identification                      | -    | A. the filtrate (solution A) gives reactions A and B of calcium salts.<br><br>B. It gives reaction (A) of carbonates | Passes<br><br>Passes |
| Substances insoluble in acetic acid | mg   | NMT 10 mg  | 4                    |
| Arsenic                             | ppm  | NMT 4.0  | <4.0                 |
| Heavy metals                        | ppm  | NMT 20   | <20.0                |
| Barium                              | -    | Passes   | Complies With IP     |
| Iron                                | ppm  | NMT 200  | <200.0               |
| Magnesium and Alkali metals         | %    | NMT 1.0  | 0.64                 |
| Chloride                            | ppm  | NMT 250 .0   | <250.0               |
| Sulfates                            | %    | NMT 0.3  | <0.3                 |
| Loss on Drying                      | %    | Not more than 2.0%, (1 g, 200°C, 1 hour)   | 0.86                 |
| Assay                               | %    | contains not less than 98.0- 100.5.0 % of CaCO <sub>3</sub>  | 99.32                |

|  |   |  |
|--|---|--|
| Tested by Chemist  | Checked by QA   | Approved by Lab Head   |
| <br>23/02/23 | <br>23/02/23 | <br>23/02/2023 |
| Mr. Gaurav Sen   | Mr. Prince Srivastava   | Mr. Ujjval Tiwari  |





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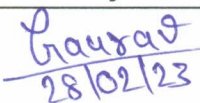
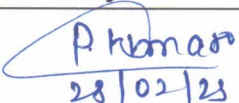
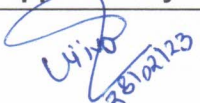
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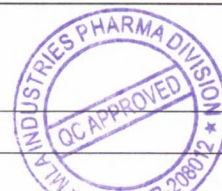
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### CERTIFICATE OF ANALYSIS

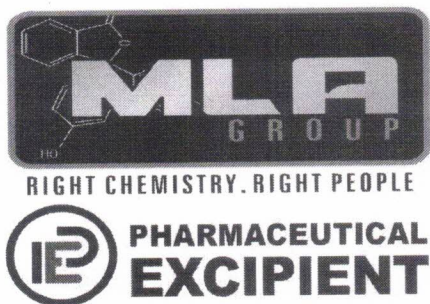
|                             |                                |
|-----------------------------|--------------------------------|
| CUSTOMER : M/s              | INVOICE : Nil                  |
| PRODUCT : CALCIUM CARBONATE | GRADE : BP                     |
| BATCH NO. : CC-12E012023    | DATE : 28/02/2023              |
| Date of MFG. : 12/01/2023   | Date of EXP : 5 years from MFG |

| PROPERTY                            | UNIT  | SPECIFICATIONS  | TEST VALUE                 |
|-------------------------------------|-------|---|----------------------------|
| Appearance                          | -     | White or almost white powder.   | Complies to BP             |
| Solubility                          | -     | Practically insoluble in water.   | Complies to BP             |
| IDENTIFICATION                      |       | A. It gives the reaction of carbonates.<br>B. 0.2 mL of solution S gives the reactions of Calcium . | A. Complies<br>B. Complies |
| Substances insoluble in acetic acid | %     | Maximum 0.2   | 0.088                      |
| Chlorides                           | ppm   | Maximum 330   | <330                       |
| Sulfates                            | %     | Maximum 0.25  | <0.25                      |
| Arsenic                             | ppm   | Maximum 4.0   | <4.0                       |
| Barium                              | -     | Passes  | Complies to BP             |
| Iron                                | ppm   | Maximum 200 ppm.  | < 200.0                    |
| Magnesium and alkali metals         | %     | Maximum 1.5 per cent.   | 0.83                       |
| Fluoride                            | mg/kg | NMT 50  | Passes                     |
| Heavy metals                        | ppm   | Maximum 20.0  | <20.0                      |
| Loss on Drying                      | %     | Not more than 2.0   | 1.18                       |
| Assay                               | %     | 98.5 per cent to 100.5 per cent (dried substance).  | 99.48                      |

|  |   |  |
|--|---|--|
| Tested by Chemist  | Checked by QA   | Approved by Lab Head   |
| <br>28/02/23 | <br>28/02/23 | <br>28/02/23 |
| Mr. Gaurav Sen   | Mr. Prince Srivastava   | Mr. Ujjval Tiwari  |







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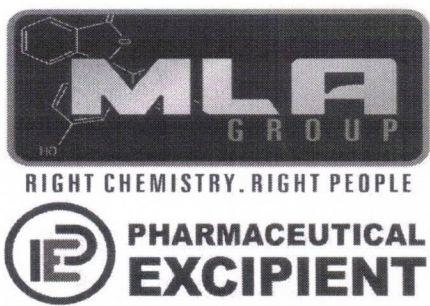
## CERTIFICATE OF ANALYSIS

|                             |                                |
|-----------------------------|--------------------------------|
| CUSTOMER : M/s              | INVOICE : SAMPLE               |
| PRODUCT : CALCIUM CARBONATE | GRADE : EP                     |
| BATCH NO. : CC - 25E022023  | DATE : 01/03/2023              |
| Date of MFG. : 25/02/2023   | Date of EXP : 5 years from MFG |

| PROPERTY                           | UNIT | SPECIFICATIONS   | TEST VALUE       |
|------------------------------------|------|--|------------------|
| Description                        | -    | White or almost white fine powder.   | Complies With EP |
| Solubility                         | -    | Practically insoluble in water.  | Complies With EP |
| Identification                     | -    | A. It gives reaction of carbonates.<br>B. 0.2 ml of Solution S (see Tests) gives reactions of calcium. | Passes           |
| Substance insoluble in Acetic acid | %    | NMT 0.2  | 0.11             |
| Chloride                           | ppm  | NMT 330  | <330             |
| Sulfates                           | %    | NMT 0.25   | <0.25            |
| Arsenic                            | ppm  | NMT 4.0  | <4.0             |
| Barium                             | -    | Complies with EP   | Complies With EP |
| Iron                               | ppm  | NMT 200  | <200             |
| Magnesium and Alkali metals        | %    | NMT 1.5 %  | Passes           |
| Heavy Metals (Pb)                  | ppm  | NMT 20 ppm   | Passes           |
| Loss on Drying                     | %    | NMT 2.0%, (1 g, 200°C, 1 hour).  | 1.24             |
| Assay                              | %    | contains not less than 98.5- 100.5 %   | 99.62            |
| Particle size distribution         | -    | Passes   | Complies With EP |
| Powder Flow                        | -    | Passes   | Complies With EP |

|                               |                               |                                  |
|-------------------------------|-------------------------------|----------------------------------|
| Tested by Chemist             | Checked by QA                 | Approved by Lab Head             |
| <i>Gaurav Sen</i><br>01/03/23 | <i>P. Kumar</i><br>01/03/2023 | <i>Ujjval Tiwari</i><br>01/03/23 |
| Mr. Gaurav Sen                | Mr. Prince Srivastava         | Mr. Ujjval Tiwari                |



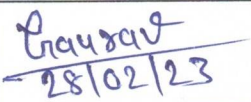
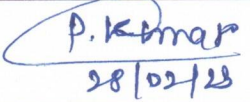



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**CERTIFICATE OF ANALYSIS**

|                             |                                |
|-----------------------------|--------------------------------|
| CUSTOMER : M/s              | INVOICE : Sample               |
| PRODUCT : CALCIUM CARBONATE | GRADE : USP                    |
| BATCH NO. : CC-15A022023    | DATE : 28/02/2023              |
| Date of MFG. : 15/02/2023   | Date of EXP : 5 years from MFG |

| PROPERTY                   | UNIT     | SPECIFICATIONS   | TEST VALUE        |
|----------------------------|----------|--|-------------------|
| Description                | -        | Calcium Carbonate, dried at 200 ° for 4 hours, contains calcium equivalent to not less than 98.0 percent and not more than 100.5 percent of CaCO <sub>3</sub> .  | Complies with USP |
| Identification             | -        | The addition of acetic acid to it produces effervescence (presence of carbonate), and the resulting solution, after boiling, responds to the tests for Calcium . | Passes            |
| Loss on drying             | %        | NMT 2.0 % @ 200 ° c For 4hour's..  | 0.34              |
| acid-insoluble substances  | %        | NMT 0.2  | Passes            |
| Fluoride                   | %        | NMT 0.005  | <0.005            |
| Arsenic                    | ppm      | NMT 3.0  | <3.0              |
| Barium                     | -        | Passes   | Complies with USP |
| Lead                       | ppm      | NMT 3.0  | <3.0              |
| Iron                       | %        | NMT 0.1  | <0.1              |
| Mercury                    | µg per g | 0.5 max.   | Passes            |
| Magnesium and alkali salts | %        | NMT 1.0  | Passes            |
| Heavy metals               | %        | NMT 0.002  | Passes            |
| Assay                      | %        | 98.0 - 100.5 % of CaCO <sub>3</sub> .  | 99.28             |

| Tested by Chemist  | Checked by QA   | Approved by Lab Head   |
|--|---|--|
| <br>28/02/23 | <br>28/02/23 | <br>28/02/23 |
| Mr. Gaurav Sen   | Mr. Prince Srivastava   | Mr. Ujjval Tiwari  |

