



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

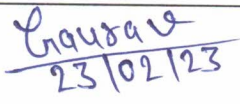
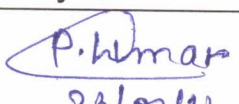
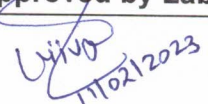
(Drug License No. UP78250000012)

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

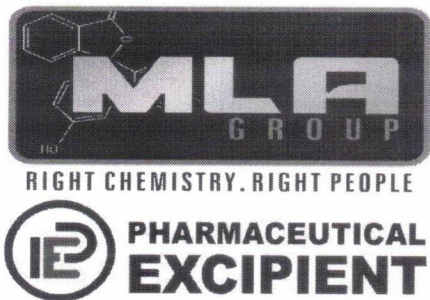
CERTIFICATE OF ANALYSIS

| | |
|----------------------------|--------------------------------|
| CUSTOMER : M/s | INVOICE : Sample |
| PRODUCT : CALCIUM STEARATE | GRADE : IP |
| BATCH NO. : CS-21C012023 | DATE : 11/02/2023 |
| Date of MFG. : 21/01/2023 | Date of EXP : 5 years from MFG |

| PROPERTY | UNIT | SPECIFICATIONS | TEST VALUE |
|---------------------------|---------|---|---------------------------|
| Description | - | White Free Flowing Powder | White Free Flowing Powder |
| Purity (assay) | % | 9.0 - 10.5 | 9.78 |
| L.O.D. (105°C) | % | 4.0 Max | 2.50 |
| Identification | - | Test A -The H2O layer gives the test for Calcium Test B- Passes, Fatty acid obtained not congeal below 54 °C | Complies to IP |
| Heavy Metals as Lead | ppm max | 10 | < 10 |
| Composition of Fatty Acid | % | Percentage of stearic acid in fatty acid NLT-40.0 & Percentage sum of stearic acid and palmic acid NLT-90 | Complies to IP |

| | | |
|--|---|--|
| Tested by Chemist | Checked by QA | Approved by Lab Head |
|  23/02/23 |  23/02/23 |  11/02/2023 |
| Mr. Gaurav Sen | Mr. Prince Srivastava | Mr. Ujjval Tiwari |





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

Regd. Office : 111/230, HARSH NAGAR, KANPUR, Tel. : (0512)-2555292
Factory Address : D-7B, D-8 & D-16, Panki Industrial Area, Site-1, Kanpur, Uttar Pradesh 208022

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 STEARATE | GRADE : BP |
| BATCH NO. : CS-22B012021 | DATE : 28/02/2023 |
| Date of MFG : 22/01/2023 | Date of EXP : 5 years from MFG |

| PROPERTY | UNIT | SPECIFICATIONS | TEST VALUE |
|--|-------------------|--|--|
| Colour & Appearance | - | White Free Flowing Powder | Complies with BP |
| Solubility | - | Practically insoluble in water and in ethanol (96 percent). | Complies with BP |
| Acidity Or Alkalinity | - | NMT 0.5 ml of 0.01 M Hcl or 0.01 M Naoh Required For Change the colour. | Complies with BP |
| Identification | - | Test A – Freezing Point-53°C Min Test B- Acid Value between 195-210 Test C – Passes Test D - Passes | A - 59 °C B - 204 C – Complies with BP D - Complies with BP |
| Acidity Or Alkalinity | - | NMT 0.5 ml of 0.01 M Hcl or 0.01 M Naoh Required For Change the colour. | Complies with BP |
| Chloride | % max | 0.1 | <0.1 |
| Sulphates | %max | 0.3 | <0.3 |
| Cadmium | ppm max | 3.0 | 0.22 |
| Lead | ppm max | 10.0 | 3.1 |
| Nickel | ppm max | 5.0 | 0.72 |
| Loss on Drying | % Max. | 6.0 % Max. | 3.14 |
| Microbial Contamination | CFU/g | TAMC-NMT 10 ³ , TYMC-NMT 10 ² , Salmonella & Escherichia Coli-Absent | Complies with BP |
| Assay As Ca | % | 6.4 -7.4 | 7.18 |
| Fatty Acid Composition 1. Stearic Acid 2. Sum of Palmitic acid +St.Acid | % % | For 1. NLT 40% For 2. NLT 90% NLT=Not Less Than | Complies with BP |
| Particle Size Distribution | - | Passes | Complies with BP |
| Specific Surface Area | M ² /g | 3.0 - 14.0 | 10.28 |

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



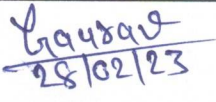
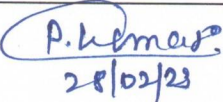



M.L.A. Industries Pvt. Ltd. (Pharma Division)
Regd. Office : 111/230,HARSH NAGAR, KANPUR,Tel. : (0512)-2555292
Factory Address : D-7B , D-8 & D-16, Panki Industrial Area, Site-1, Kanpur, Uttar Pradesh 208022
Website:www.mlagroup.com, E-mail:sales@mlagroup.com
(Drug License No. UP78250000012)
(Food Safety & Drug Administration – Govt. of Uttar Pradesh)

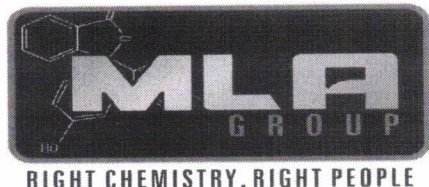
CERTIFICATE OF ANALYSIS

| | |
|----------------------------|-------------------------------|
| CUSTOMER : | INVOICE : Sample |
| PRODUCT : CALCIUM STEARATE | GRADE : USP |
| BATCH NO. : CS-18A022023 | DATE :28/02/2023 |
| Date of MFG: 18/02/2023 | Date of EXP: 5 years from MFG |

| PROPERTY | UNIT | SPECIFICATIONS | TEST VALUE |
|-------------------------------|---------|---|----------------------------------|
| Colour & Appearance | - | White Free Flowing Powder | White Free Flowing Powder |
| Identification | - | Test A – Freezing Point- 53°C Min Test B- Fatty acid obtained not congeal below 54 °C | Test A –57 Test B- Passes |
| Assay on dried basis | % | Ca- 6.4 - 7.4 | 6.85 |
| Content of Stearic Acid | % | NLT 40 % | Passes |
| Sum of Steric & Palmetic acid | % | NLT 90 % | Passes |
| Heavy Metal | ppm max | 10 | < 10 ppm |
| Loss on Drying | % | NMT 4.0 @105 *C temp | 3.5 |

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





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

Regd. Office : 111/230, HARSH NAGAR, KANPUR, Tel. : (0512)-2555292
Factory Address : D-7B, D-8 & D-16, Panki Industrial Area, Site-1, Kanpur, Uttar Pradesh 208022

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

(Drug License No. UP78250000012)

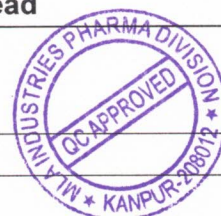
(Food Safety & Drug Administration – Govt. of Uttar Pradesh)

CERTIFICATE OF ANALYSIS

| | |
|----------------------------------|---------------------------------------|
| CUSTOMER : M/s | INVOICE : Sample |
| PRODUCT : CALCIUM STERATE | GRADE : EP |
| BATCH NO. : CS-16E022023 | DATE : 01/03/2023 |
| Date of MFG. : 16/02/2023 | Date of EXP : 5 years from MFG |

| PROPERTY | UNIT | SPECIFICATIONS | TEST VALUE |
|--|-------|--|--|
| Description | - | Appearance: fine, white or almost white, crystalline powder. | Complies to EP |
| Solubility | | practically insoluble in water and in ethanol. | Complies to EP |
| Identification | - | A. Freezing point : minimum 53 °C B. Acid value : 195 to 210. C. Examine the chromatograms obtained in the test for fatty acid composition. D. Sol gives the reaction of Calcium. | A - 58 °C B - 204 C - Complies to EP D - Complies to EP |
| Acidity or alkalinity | - | Not more than 0.5 ml of 0.01 m hcl or 0.01 M sodium hydroxide is required to change the colour of the indicator. | Passes |
| Chloride | % | NMT 0.1 | < 0.1 |
| Sulfates | % | NMT 0.3 | <0.3 |
| Cadmium | ppm | NMT 3.0 | 0.34 |
| Lead | ppm | NMT 10.0 | 4.89 |
| Nickel | ppm | NMT 5.0 | 0.61 |
| Loss on drying | % | NMT 6. | 2.84 |
| Microbial contamination | CFU/g | TAMC: acceptance criterion 10 ³ CFU/g TYMC: acceptance criterion 10 ² CFU/g E.coli & Salmonella- Absent | Passes |
| Assay (Calcium) | % | 6.4 - 7.4 | 7.06 |
| Fatty Acid Composition 1. Stearic Acid 2. Sum of Palmitic acid +St.Acid | % | For 1. NLT 40.0 For 2. NLT 90.0 | Complies to EP |
| Particle Size | - | Passes | Complies to EP |

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





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

Regd. Office : 111/230, HARSH NAGAR, KANPUR, Tel. : (0512)-2555292
Factory Address : D-7B, D-8 & D-16, Panki Industrial Area, Site-1, Kanpur, Uttar Pradesh 208022

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

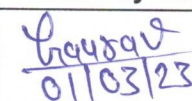
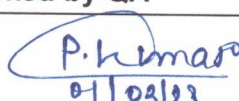
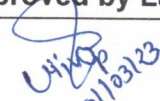
(Drug License No. UP78250000012)

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

CERTIFICATE OF ANALYSIS

| | |
|----------------------------|-------------------------------|
| CUSTOMER : | INVOICE : |
| PRODUCT : CALCIUM STEARATE | GRADE : JP |
| BATCH NO. : 18E0202023 | DATE : 01/03/2023 |
| Date of MFG. : 18/02/2023 | Date of EXP: 5 years from MFG |

| PROPERTY | UNIT | SPECIFICATIONS | TEST VALUE |
|----------------|------|---|----------------------|
| Description | - | Calcium Stearate occurs as a white, light, bulky powder. It feels smooth when touched, and is adhesive to the skin. It is odorless or has a faint, characteristic odor. | Complies to JP |
| SOLUBILITY | - | It is practically insoluble in water, in ethanol (95) and in diethyl ether. | Complies to JP |
| Identification | - | Test A – Shake vigorously 3g Stearate with 20 ml. of diluted hydrochloric acid (1 in 2) and 30 mL of diethyl ether for 3 minutes, and allow to stand: the separated aqueous layer responds to the Qualitative Tests (1), (2) and (4) for calcium salt. Test B – residue melts at a temperature not below 54°C. | Passes Passes |
| Heavy metals | ppm | NMT 20 ppm . | Passes |
| Arsenic | ppm | NMT 2 ppm. | Passes |
| Loss on drying | % | NMT 4.0% (1 g, 105°C, 3 hours) | 2.85 |
| Assay | % | NLT 6.4% and NMT 7.1% of calcium | 6.86 |

| | | |
|--|---|--|
| Tested by Chemist | Checked by QA | Approved by Lab Head |
|  01/03/23 |  01/03/23 |  01/03/23 |
| Mr. Gaurav Sen | Mr. Prince Srivastava | Mr. Ujjval Tiwari |

