



CATER DISTRIBUTORS INC.

747, SUNRISE LANE,
ROSELLE, IL 60172-3439

TEL: (630) 706-0757
FAX: (630) 980-2323

CERTIFICATE OF ANALYSIS

Diphenylamine

BATCH NO : BG15145
FORMULA : (C₆H₅)₂NH
FORMULA Wt : 169.22
CAS NO : 122 - 39 - 4

GRADE : Technical (357013)
DATE OF MANUFACTURING : 25-July-2015
QUANTITY MANUFACTURED : 12247.20 Kg
PO MP00096040

RESULTS OF ANALYSIS

| <u>TEST</u> | <u>LIMIT</u> | <u>OBSERVATION</u> |
|----------------------------------|-----------------------------|--------------------|
| Appearance | White or almost white solid | Almost white Solid |
| Assay (Purity) | Min. 99.7 % | 99.85 % |
| Setting point | 51.7°C to 53.0°C | 52.0°C to 53.0°C |
| Insoluble Material (Residue) | Max 0.02 % | 0.005 % |
| Moisture | Max 0.2 % | 0.072 % |
| Acidity (as hydrochloric acid) | Max 0.005% | 0.002 % |
| Alkalinity (as Sodium Hydroxide) | Max 0.005 % | Nil |
| Oxidizable Material (as Aniline) | Max.0.1 % | Not detected |

Analysed By,

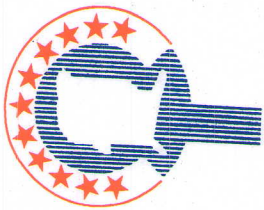
(Q.C Chemist-Gulab)

Customers Are The Entire Reason

PLANTS :



BURADON INC. : BLOCK NO. 429, VILL. UMARAYA, TAMIL NADU



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CERTIFICATE OF ANALYSIS

| | | | |
|-------------------|---|-------------------|--------------------------|
| Name of Product | : | Potassium Nitrate | PO: MP00092233 Release 6 |
| Batch No. | : | BB -1601001 | Grade |
| Batch Size | : | 4082.4 Kg | CAS No. |
| Mfg. Date | : | 04 Jan 2016 | A .R. No. |
| Exp. Date | : | NA | Date of Analysis |
| Molecular Weight | : | 101.10 | Date of Release |
| Molecular Formula | : | KNO3 | Page No. |
| | | | : 1 of 1 |

| Sr. No. | Tests | Specification/Limits | Observation |
|---------|-------------------------------------|--------------------------|--------------------------|
| 1. | Appearance | White Crystalline powder | White Crystalline powder |
| 2. | Identification | To pass test | Passes Test |
| 3. | Moisture | Max. 0.2 % | 0.12 % |
| 4. | pH Level | 6.0 – 8.0 | 6.31 |
| 5. | Water Insoluble & Grit | Max. 0.1 % | 0.068% |
| 6. | Chlorides (KCl) | Max. 0.07% | < 0.07 % |
| 7. | Chlorates & Perchlorates as (KClO4) | Max. 0.5 % | < 0.5 % |
| 8. | Iron & Aluminum as oxides | Max. 0.5 % | 0.00015 % |
| 9. | Calcium & Magnesium as oxide | Max. 0.5 % | 0.00815% |
| 10. | Sodium as oxide | Max. 0.25 % | 0.0123 % |
| 11. | Ammonium Compounds | None | None |
| 12. | Nitrogen | Min. 13.77 % | 13.81% |
| 13. | Odor | odorless | odorless |
| 14. | Cab- O-Sil | 0.4 to 0.6 % | 0.52% |
| | Granulation | | |
| 15. | Thru U.S. 80 Sieve | Min.99.9 % | 99.96% |
| 16. | Thru U.S. 100 Sieve | Min. 40 % | 99.17% |

Conclusion: Sample complies/~~does not comply~~ as per above specification.

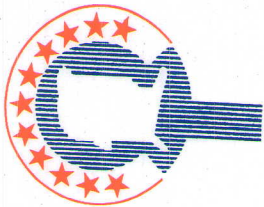
| Analyzed By/Date | Approved By/Date |
|-----------------------------|-----------------------------|
| <i>Sperry</i> 04-01-2016 | <i>Sperry</i> 04.01.2016 |

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BURADON INC. : BLOCK NO. 429 , VILL. UMARAYA, TAL. PADRA, DIST. VADODARA-391440 Ph. No. 02222 01111

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FAX: (630) 980-2323

CERTIFICATE OF ANALYSIS

| | | |
|-------------------|---------------------|--------------------------------|
| Name of Product | : Potassium Nitrate | PO: MP00092233 Release 6 |
| Batch No. | : BB -1601003 | |
| Batch Size | : 4082.4 Kg | Grade : Reagent (357212) |
| Mfg. Date | : 07 Jan 2016 | CAS No. : 7757 - 79 - 1 |
| Exp. Date | : NA | A .R. No. : FP/01/16003 |
| Molecular Weight | : 101.10 | Date of Analysis : 07 Jan 2016 |
| Molecular Formula | : KNO3 | Date of Release : 07 Jan 2016 |
| | | Page No. : 1 of 1 |

| Sr. No. | Tests | Specification/Limits | Observation |
|---------|-------------------------------------|--------------------------|--------------------------|
| 1 | Appearance | White Crystalline powder | White Crystalline powder |
| 2 | Identification | To pass test | Passes Test |
| 3 | Moisture | Max. 0.2 % | 0.11 % |
| 4. | pH Level | 6.0 - 8.0 | 6.23 |
| 5. | Water Insoluble & Grit | Max. 0.1 % | 0.059% |
| 6. | Chlorides (KCl) | Max. 0.07% | < 0.07 % |
| 7. | Chlorates & Perchlorates as (KClO4) | Max. 0.5 % | < 0.5 % |
| 8. | Iron & Aluminum as oxides | Max. 0.5 % | 0.000094 % |
| 9. | Calcium & Magnesium as oxide | Max. 0.5 % | 0.0088 % |
| 10. | Sodium as oxide | Max. 0.25 % | 0.011 % |
| 11. | Ammonium Compounds | None | None |
| 12. | Nitrogen | Min. 13.77 % | 13.80% |
| 13. | Odor | odorless | odorless |
| 14. | Cab- O-Sil | 0.4 to 0.6 % | 0.52% |
| | Granulation | | |
| 15. | Thru U.S. 80 Sieve | Min.99.9 % | 99.95 % |
| 16. | Thru U.S. 100 Sieve | Min. 40 % | 99.90 % |

Conclusion: Sample complies/~~does not comply~~ as per above specification.

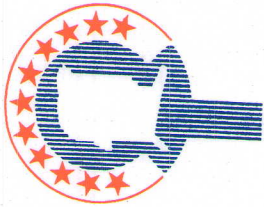
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|----------------------------|----------------------------|
| Analyzed By/Date | Approved By/Date |
| <i>Jewel</i> 07.01.2016 | <i>Jewel</i> 07.01.2016 |

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CERTIFICATE OF ANALYSIS

| | | | |
|-------------------|--|------------------|--------------------|
| Name of Product | : Potassium Nitrate PO: MP00092233 Release 6 | | |
| Batch No. | : BB -1601004 | Grade | : Reagent (357212) |
| Batch Size | : 4082.4 Kg | CAS No. | : 7757 - 79 - 1 |
| Mfg. Date | : 08 Jan 2016 | A .R. No. | : FP/01/16004 |
| Exp. Date | : NA | Date of Analysis | : 08 Jan 2016 |
| Molecular Weight | : 101.10 | Date of Release | : 08 Jan 2016 |
| Molecular Formula | : KNO3 | Page No. | : 1 of 1 |

| Sr. No. | Tests | Specification/Limits | Observation |
|---------|-------------------------------------|--------------------------|--------------------------|
| 1 | Appearance | White Crystalline powder | White Crystalline powder |
| 2 | Identification | To pass test | Passes Test |
| 3 | Moisture | Max. 0.2 % | 0.12 % |
| 4. | pH Level | 6.0 - 8.0 | 6.24 |
| 5. | Water Insoluble & Grit | Max. 0.1 % | 0.059% |
| 6. | Chlorides (KCl) | Max. 0.07% | < 0.07 % |
| 7. | Chlorates & Perchlorates as (KClO4) | Max. 0.5 % | < 0.5 % |
| 8. | Iron & Aluminum as oxides | Max. 0.5 % | 0.00018 % |
| 9. | Calcium & Magnesium as oxide | Max. 0.5 % | 0.00033% |
| 10. | Sodium as oxide | Max. 0.25 % | 0.0146 % |
| 11. | Ammonium Compounds | None | None |
| 12. | Nitrogen | Min. 13.77 % | 13.81% |
| 13. | Odor | odorless | odorless |
| 14. | Cab- O-Sil | 0.4 to 0.6 % | 0.52% |
| | Granulation | | |
| 15. | Thru U.S. 80 Sieve | Min.99.9 % | 99.96% |
| 16. | Thru U.S. 100 Sieve | Min. 40 % | 99.81% |

Conclusion: Sample complies/does not comply as per above specification.

| | |
|-----------------------------|-----------------------------|
| Analyzed By/Date | Approved By/Date |
| <i>Sperry</i> 08-01-2016 | <i>Sperry</i> 08-01-2016 |