

284 Sheffield Street, Mountainside, New Jersey 07092, Phone: 908 789

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID: Q1070

Test: Ammonia,BOD Soluble,BOD5,COD,Color,Oil and Grease,Phosphorus-Total,TDS,TSS

Prepbatch ID: PB166041,PB166064,

Sequence ID/Qc Batch ID: LB134233,LB134237,LB134238,LB134244,LB134293,LB134299,LB134305,LB134308,

Standard ID:

EP2577, WP100827, WP100828, WP108840, WP109922, WP110019, WP110149, WP110150, WP110194, WP110196, WP110197, WP110198, WP110199, WP110200, WP110335, WP110380, WP110386, WP110400, WP110401, WP110416, WP110587, WP110588, WP110656, WP110658, WP110826, WP111317, WP111318, WP111323, WP111325, WP111365, WP111365, WP111367, WP111368, WP111381, WP111382, WP111383, WP111385, WP111404, WP111405, WP111406, WP111407, WP111408, WP111410, WP111411, WP111412, WP111413, WP111414, WP111415, WP111419, WP111420, WP111423, WP111424, WP111425, WP99896,

Chemical ID:

E3551,M5673,M6069,M6121,W1992,W1993,W2306,W2606,W2650,W2653,W2654,W2664,W2666,W2699,W2700,W2700,W2700,W2783,W2783,W2788,W2845,W2858,W2898,W2979,W3035,W3059,W3074,W3103,W3105,W3109,W3111,W3112,W3113,W3125,W3132,W3133,W3140,W3143,W3144,W3149,W3155,W3169,



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Extractions STANDARD PREPARATION LOG

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|-----------------------------------|--------------|-------------|-------------|---------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | RUPESHKUMAR |
| 3923 | Baked Sodium Sulfate | EP2577 | 01/06/2025 | 07/01/2025 | Rajesh Parikh | Extraction_SC | None | SHAH |
| | | | | | | ALE_2 | | 01/06/2025 |
| FROM | 4000.00000gram of E3551 = Final C | uantity: 400 | 00.000 gram | | | (EX-SC-2) | | |

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|-----------------------------------|------------|------------|--------------------|----------------|-------------------------|------------------|----------------------------|
| 114 | hexavalent chromium color reagent | WP100827 | 02/02/2023 | 02/09/2023 | Rubina Mughal | WETCHEM_S CALE_5 (WC | None | 02/02/2023 |

FROM 0.25000gram of W2979 + 50.00000ml of W2783 = Final Quantity: 50.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipettelD</u> | Supervised By Sohil Jodhani |
|--------------|---|-----------------|--------------|--------------------|----------------|----------------|-----------------------|-----------------------------|
| 3456 | Cyanide Intermediate Working Std, 5PPM | <u>WP100828</u> | 02/02/2023 | 02/03/2023 | lwona Zarych | None | WETCHEM_F IPETTE_3 | 02/07/2023 |
| FROM | 0.25000ml of W2898 + 49.75000ml of | of WP99896 | = Final Quar | ntity: 50.000 m | I | | (WC) | |

| ROM | 0.25000ml of W2898 + 49.75000ml of WP99896 = Final Quantity: 50.000 ml |
|-----|--|
|-----|--|

| Recipe | | | | <u>Expiration</u> | <u>Prepared</u> | | | Supervised By |
|-----------|-------------------------|----------|------------|-------------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 635 | EDTA BUFFER FOR AMMONIA | WP108840 | 07/26/2024 | 01/26/2025 | Rubina Mughal | WETCHEM_S | None | |
| | | | | | | CALE_5 (WC | | 07/26/2024 |

5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml **FROM**



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Wet Chemistry STANDARD PREPARATION LOG

| | By ScaleID | <u>PipetteID</u> | Jignesh Parikh |
|--|-------------------|------------------|----------------|
| 1211 11 N sulfuric acid WP109922 09/26/2024 03/26/2025 | Iwona Zarych None | None | Ŭ |
| | | | 10/07/2024 |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|---------------------------------|------------|------------|-------------|---------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 289 | Sodium Hypochlorite for Ammonia | WP110019 | 10/02/2024 | 01/31/2025 | Rubina Mughal | None | None | Ţ |
| | | | | | | | | 10/04/2024 |

FROM 50.00000ml of W3112 + 50.00000ml of W3143 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | <u>NAME</u> | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|----------------------------------|--------------|---------------|--------------------|----------------|----------------|------------------|----------------------------|
| 153 | Ammonia Stock Std. (1000 ppm) | WP110149 | 10/11/2024 | 04/08/2025 | Rubina Mughal | WETCHEM_S | None | - |
| | | | | | | CALE_5 (WC | | 10/14/2024 |
| FDOM | 2 91000gram of W1002 + 006 19100 | ml of \\/211 | 2 - Final Oue | ntitu: 1000 000 | \ ml | SC-5) | | |

| FROM 3.81900gram of W1993 + 996.18100ml of W3112 = Final Qu | iantity: 1000.000 ml |
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| Recipe ID | NAME_ | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|----------------------------------|-----------------|------------|--------------------|----------------|-------------------------|------------------|----------------------------|
| 1895 | Ammonia Stock Std, 1000PPM-SS | <u>WP110150</u> | 10/11/2024 | 04/08/2025 | Rubina Mughal | WETCHEM_S CALE 5 (WC | None | 10/14/2024 |
| | | | | | | SC-5) | | 10/17/2024 |

FROM 3.81900gram of W1992 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Jignesh Parikh |
|--------------|---------------------------|-----------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 2456 | COD Stock std, 1000ppm | WP110194 | 10/14/2024 | 10/21/2024 | Iwona Zarych | WETCHEM_S | None | |
| | | | | | | CALE_4 (WC | | 10/17/2024 |
| | 0.00500 [W0444 : 400.0000 | 1 5340446 | F: 10 | 111 100 000 | | SC-4) | | |

| FROM | 0.08500gram of W3111 + | 100.00000ml of W3112 | = Final Quantity: 100.000 ml |
|-------------|------------------------|----------------------|------------------------------|
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| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|----------------------------|----------|------------|-------------|-----------------|----------------|------------------|----------------|
| <u>ID</u> | <u>NAME</u> | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Jignesh Parikh |
| 139 | COD calibration std. 0 ppm | WP110196 | 10/14/2024 | 10/21/2024 | Iwona Zarych | None | None | 3 |
| | | | | | | | | 10/17/2024 |

FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Jignesh Parikh |
|--------------|-----------------------------------|----------|--------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 138 | COD calibration std. 10 ppm | WP110197 | 10/14/2024 | 10/21/2024 | Iwona Zarych | None | WETCHEM_F | |
| | | | | | | | IPETTE_3 | 10/17/2024 |
| | 0.00000=1.=f.W2442 + 0.40000=1.=f | WD440404 | - Final Over | | | | (VVC) | |

| FROM | 9.90000ml of W3112 + 0.10000ml of WP110194 = Final Quantity: 10.000 ml |
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| Recipe ID | <u>NAME</u> | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Jignesh Parikh |
|--------------|-----------------------------|------------|------------|--------------------|----------------|----------------|-----------------------|------------------------------|
| 137 | COD calibration std. 50 ppm | WP110198 | 10/14/2024 | 10/21/2024 | lwona Zarych | None | WETCHEM_P IPETTE_3 | 10/17/2024 |

FROM 9.50000ml of W3112 + 0.50000ml of WP110194 = Final Quantity: 10.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

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|--------------|-----------------------------------|-----------------|--------------|--------------------|----------------|----------------|-----------------------|-------------------------------|
| 136 | COD calibration std. 100 ppm | <u>WP110199</u> | 10/14/2024 | 10/21/2024 | lwona Zarych | None | WETCHEM_F IPETTE_3 | 10/17/2024 |
| EDOM | 0.00000ml of W3112 ± 1.00000ml of | WD110104 | - Final Ouan | tity: 10 000 ml | | | (WC) | |

| <u>FROM</u> | 9.00000ml of W3112 + 1.00000ml of WP110194 = Final Quantity: 10.000 ml |
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| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|------------------------------|------------|------------|-------------|-----------------|----------------|------------------|----------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Jignesh Parikh |
| 135 | COD calibration std. 150 ppm | WP110200 | 10/14/2024 | 10/21/2024 | Iwona Zarych | None | WETCHEM_F | |
| | | | | | | | IPETTE_3 | 10/17/2024 |

FROM 8.50000ml of W3112 + 1.50000ml of WP110194 = Final Quantity: 10.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | <u>NAME</u> | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych | | |
|--------------|--------------|-----------------|------------|--------------------|----------------|----------------|-----------------------|----------------------------|--|--|
| 1597 | 0.04 N H2SO4 | <u>WP110335</u> | 10/22/2024 | 04/22/2025 | Rubina Mughal | None | WETCHEM_F IPETTE_3 | 10/22/2024 | | |
| 50014 | (WC) | | | | | | | | | |

| <u>FROM</u> | 1.00000ml of | 1015673 + 99 | 9.00000mi of 1 | W3112 = Final | Quantity: 1000.000 | mı |
|-------------|--------------|--------------|----------------|---------------|--------------------|----|
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| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|------------------|------------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 126 | 5N sulfuric acid | WP110380 | 10/24/2024 | 04/24/2025 | Rubina Mughal | None | None | |
| | | | | | | | | 10/24/2024 |

FROM 140.00000ml of M5673 + 860.00000ml of W3112 = Final Quantity: 1.000 L



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Wet Chemistry STANDARD PREPARATION LOG

| Ī | Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|---|-----------|-----------------------------------|--------------|----------------|--------------|-----------------|----------------|------------------|---------------|
| | <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| | 1841 | Sulfuric Acid, 1N | WP110386 | 10/24/2024 | 04/24/2025 | Rubina Mughal | None | WETCHEM_F | • |
| | | | | | | | | IPETTE_3 | 10/24/2024 |
| I | EDOM | 2 80000ml of M5673 ± 07 20000ml o | f \\\/3112 = | Final Ouantity | : 100 000 ml | | | (WC) | |

| <u>FROM</u> | 2.80000ml of M5673 | + 97.20000ml of W3112 | = Final Quantity: 100.000 i | mı |
|-------------|--------------------|-----------------------|-----------------------------|----|
| | | | | |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|-------------------------------|------------|------------|-------------|---------------|----------------|------------------|---------------|
| <u>ID</u> | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | lwona Zarych |
| 115 | Phosphate Stock Std. (50 ppm) | WP110400 | 10/24/2024 | 04/23/2025 | Rubina Mughal | _ | None | • |
| | | | | | | CALE_5 (WC | | 10/25/2024 |

FROM 0.11000gram of W2699 + 500.00000ml of W3112 = Final Quantity: 500.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|----------------------------------|-------------|---------------|----------------|---------------|----------------|------------------|---------------|
| <u>ID</u> | NAME | NO. | Prep Date | <u>Date</u> | Ву | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 2790 | Phosphate Stock std, 50PPM-SS | WP110401 | 10/24/2024 | 04/24/2025 | Rubina Mughal | WETCHEM_S | None | , |
| | | | | | | CALE_5 (WC | | 10/25/2024 |
| FROM | 0.11000gram of W2708 + 500.00000 | ml of W3112 | P = Final Qua | ntity: 500 000 | ml | SC-5) | | |

| 11011 | | |
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| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipettelD</u> | Supervised By Iwona Zarvch |
|--------------|--------------------------------------|-----------------|------------|--------------------|----------------|-------------------------|------------------|----------------------------|
| 740 | sodium nitroferricyanide for ammonia | <u>WP110416</u> | 10/25/2024 | 04/25/2025 | Rubina Mughal | WETCHEM_S CALE_5 (WC | None | 10/25/2024 |

FROM 0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Jignesh Parikh |
|--------------|-----------------------------|-----------------|------------|--------------------|-----------------------|-------------------------|------------------|-------------------------------|
| 648 | Ammonium molybdate solution | <u>WP110587</u> | 11/07/2024 | 05/07/2025 | Niha Farheen Shaik | WETCHEM_S CALE_5 (WC | | 11/07/2024 |
| | 00.0000 | 0 1 (1)(0.4) | 10 5 10 | | | SC-5) | | |

FROM 20.00000gram of W2664 + 480.00000ml of W3112 = Final Quantity: 500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Jignesh Parikh |
|--------------|------------------------------|----------|------------|--------------------|-----------------------|-------------------------|------------------|-------------------------------|
| 588 | Potassium Antimonyl Tartrate | WP110588 | 11/07/2024 | 05/07/2025 | Niha Farheen Shaik | WETCHEM_S CALE_5 (WC | None | 11/07/2024 |

FROM 1.37150gram of W2306 + 500.00000ml of W3112 = Final Quantity: 500.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | <u>NAME</u> | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Mohan Bera |
|--------------|----------------------------|-----------------|------------|--------------------|-----------------------|-------------------------|------------------|---------------------------|
| 2457 | COD Stock std-SS, 1000ppm | <u>WP110656</u> | 11/11/2024 | 11/18/2024 | Niha Farheen Shaik | WETCHEM_S CALE 5 (WC | | 44/40/0004 |
| | 0.00500 (W0444 : 400.00000 | | | 111 100 000 | | SC-5) | | 11/12/2024 |

FROM 0.08500gram of W3111 + 100.00000ml of W3112 = Final Quantity: 100.000 ml

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|------------------------|----------|------------|-------------|--------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Mohan Bera |
| 2459 | COD ICV-LCS std, 50ppm | WP110658 | 11/11/2024 | 11/18/2024 | Niha Farheen | None | WETCHEM_F | |
| | | | | | Shaik | | IPETTE_3 | 11/12/2024 |

FROM 9.50000ml of W3112 + 0.50000ml of WP110656 = Final Quantity: 10.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|---------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 229 | 1:1 HCL | WP110826 | 11/22/2024 | 05/13/2025 | Jignesh Parikh | None | None | , . |
| | | | | | | | | 11/22/2024 |

| FROM | 500.00000ml of M6121 + 500.00000ml of W3112 = Final Quantity: 1.000 L |
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| Recipe | | | | <u>Expiration</u> | <u>Prepared</u> | | | Supervised By |
|-----------|------------|----------|------------|-------------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | NAME | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 1796 | NaOH, 0.1N | WP111317 | 01/09/2025 | 07/09/2025 | Rubina Mughal | WETCHEM_S | None | _ |
| | | | | | | CALE_7 (WC | | 01/09/2025 |

FROM 4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych | | |
|--------------|-------------------|----------|------------|--------------------|----------------|----------------|------------------|----------------------------|--|--|
| 1471 | NaOH Solution, 6N | WP111318 | 01/09/2025 | 07/09/2025 | Rubina Mughal | WETCHEM_S | None | IWOIIA Zaryon | | |
| | | | | | | CALE_7 (WC | | 01/09/2025 | | |
| EDOM | SC-0) | | | | | | | | | |

| FROM | 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml |
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| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|----------------------|----------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | lwona Zarych |
| 1571 | Sodium hydroxide, 1N | WP111323 | 01/09/2025 | 07/09/2025 | Rubina Mughal | WETCHEM_S | None | |
| | | | | | | CALE_8 (WC | | 01/09/2025 |

FROM 4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

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|--------------|---------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1494 | BORATE BUFFER | WP111325 | 01/09/2025 | 01/10/2025 | Rubina Mughal | None | None | |
| | | | | | | | | 01/09/2025 |
| | | | | | | | | |

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|------------------------|------------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 2456 | COD Stock std, 1000ppm | WP111365 | 01/10/2025 | 01/17/2025 | Niha Farheen | WETCHEM_S | None | |
| | | | | | Shaik | CALE_5 (WC | | 01/13/2025 |

FROM 0.08500gram of W3169 + 100.00000ml of W3112 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME_ | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych | | |
|--------------|---------------------------|-----------------|------------|--------------------|-----------------------|-------------------------|------------------|----------------------------|--|--|
| 2457 | COD Stock std-SS, 1000ppm | <u>WP111366</u> | 01/10/2025 | 01/17/2025 | Niha Farheen Shaik | WETCHEM_S CALE_5 (WC | | 01/13/2025 | | |
| | SC-5) | | | | | | | | | |

FROM 0.08500gram of W3111 + 100.00000ml of W3112 = Final Quantity: 100.000 ml

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|--------------------|------------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 2458 | COD CCV std, 50ppm | WP111367 | 01/10/2025 | 01/17/2025 | Niha Farheen | None | WETCHEM_F | |
| | | | | | Shaik | | IPETTE_3 | 01/13/2025 |

FROM 9.50000ml of W3112 + 0.50000ml of WP111365 = Final Quantity: 10.000 ml



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|-----------|------------------------|------------|------------|-------------|-----------------|----------------|------------------|---------------|--|--|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych | | |
| 2459 | COD ICV-LCS std, 50ppm | WP111368 | 01/10/2025 | 01/17/2025 | Niha Farheen | None | WETCHEM_F | | | |
| | | | | | Shaik | | IPETTE_3 | 01/13/2025 | | |
| | (WC) | | | | | | | | | |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|--------------------|------------|------------|-------------|---------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | lwona Zarych |
| 127 | BOD Dilution fluid | WP111381 | 01/10/2025 | 01/11/2025 | Rubina Mughal | None | None | Ţ |
| | | | | | | | | 01/13/2025 |

FROM 18.00000L of W3112 + 3.00000PILLOW of W3144 = Final Quantity: 18.000 L



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych | | |
|--------------|---|-----------------|------------|--------------------|----------------|----------------|------------------|----------------------------|--|--|
| 129 | Glutamic acid-glucose mix for BOD | <u>WP111382</u> | 01/10/2025 | 01/11/2025 | Rubina Mughal | CALE_7 (WC | None | 01/13/2025 | | |
| FROM | FROM 0.15000gram of W2653 + 0.15000gram of W2654 + 1000.0000ml of W3112 = Final Quantity: 1000.000 ml | | | | | | | | | |

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|-----------------------|----------|------------|-------------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 128 | polyseed seed control | WP111383 | 01/10/2025 | 01/11/2025 | Rubina Mughal | None | None | , |
| | | | | | | | | 01/13/2025 |

1.00000PILLOW of W3059 + 300.00000ml of WP111381 = Final Quantity: 300.000 ml **FROM**



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|----------------------------|----------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 290 | Phenol reagent for Ammonia | WP111385 | 01/13/2025 | 07/13/2025 | Rubina Mughal | WETCHEM_S | | , |
| | | | | | | CALE_8 (WC | | 01/13/2025 |
| | | | | | | SC-7) | | |

FROM 3.20000gram of W3113 + 8.30000gram of W2858 + 88.80000ml of W3112 = Final Quantity: 100.000 ml

| Recipe | | | | <u>Expiration</u> | <u>Prepared</u> | | | Supervised By |
|-----------|------------------------|-----------------|------------|-------------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 122 | calibration std. 0 ppm | <u>WP111404</u> | 01/15/2025 | 01/22/2025 | Niha Farheen | None | None | |
| | | | | | Shaik | | | 01/16/2025 |

FROM 50.00000ml of W3112 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | <u>NAME</u> | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|--|-----------------|------------|--------------------|-----------------------|----------------|-----------------------|----------------------------|
| 121 | calibration std. phosphate 0.05 ppm | <u>WP111405</u> | 01/15/2025 | 01/22/2025 | Niha Farheen Shaik | None | WETCHEM_P IPETTE_3 | , |
| | | | | | | | (WC) | |

FROM 99.90000ml of W3112 + 0.10000ml of WP110400 = Final Quantity: 100.000 ml

| Recipe | | | | <u>Expiration</u> | <u>Prepared</u> | | | Supervised By |
|-----------|------------------------------------|----------|------------|-------------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | NAME | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 120 | calibration std. phosphate 0.1 ppm | WP111406 | 01/15/2025 | 01/22/2025 | Niha Farheen | None | WETCHEM_F | , |
| | | | | | Shaik | | IPETTE_3 | 01/16/2025 |

FROM 99.80000ml of W3112 + 0.20000ml of WP110400 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych | | |
|--------------|------------------------------------|-----------------|------------|--------------------|-----------------------|----------------|-----------------------|----------------------------|--|--|
| 119 | calibration std. phosphate 0.3 ppm | <u>WP111407</u> | 01/15/2025 | 01/22/2025 | Niha Farheen Shaik | None | WETCHEM_F IPETTE_3 | 01/16/2025 | | |
| | (WC) | | | | | | | | | |

| Recipe ID | <u>NAME</u> | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipettelD</u> | Supervised By Iwona Zarvch |
|--------------|------------------------------------|-----------------|------------|--------------------|-----------------------|----------------|-----------------------|----------------------------|
| 118 | calibration std. phosphate 0.5 ppm | <u>WP111408</u> | 01/15/2025 | 01/22/2025 | Niha Farheen Shaik | None | WETCHEM_F IPETTE_3 | 01/16/2025 |

FROM 99.00000ml of W3112 + 1.00000ml of WP110400 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych | | | |
|--------------|----------------------------------|-----------------|------------|--------------------|-----------------------|----------------|-----------------------|----------------------------|--|--|--|
| 117 | calibration std. phosphate 1 ppm | <u>WP111410</u> | 01/15/2025 | 01/22/2025 | Niha Farheen Shaik | None | WETCHEM_F IPETTE_3 | 01/16/2025 | | | |
| | (WC) | | | | | | | | | | |

| <u>FROM</u> | 98.00000ml of W3112 + 2.00000ml of WP110400 = Final Quantity: 100.000 ml | |
|-------------|--|--|
| | | |

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|--------------------|------------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 124 | phosphate CCV std. | WP111411 | 01/15/2025 | 01/22/2025 | Niha Farheen | None | WETCHEM_F | |
| | | | | | Shaik | | IPETTE_3 | 01/16/2025 |

FROM 99.00000ml of W3112 + 1.00000ml of WP110400 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | <u>NAME</u> | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych | | |
|--------------|-----------------------|----------|------------|--------------------|-----------------------|----------------|-----------------------|----------------------------|--|--|
| 3805 | Phosphate ICV-LCS Std | WP111412 | 01/15/2025 | 01/22/2025 | Niha Farheen Shaik | None | WETCHEM_F IPETTE_3 | 01/16/2025 | | |
| FROM | (WC) | | | | | | | | | |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|---------------|----------|------------|-------------|-----------|----------------|------------------|---------------|
| <u>ID</u> | NAME | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 590 | Ascorbic Acid | WP111413 | 01/15/2025 | 01/22/2025 | | WETCHEM_S | None | |
| | | | | | Shaik | CALE_5 (WC | | 01/16/2025 |
| | | | | | | SC-5) | | |

FROM 0.52800gram of W3074 + 30.00000ml of W3112 = Final Quantity: 30.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | <u>NAME</u> | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych | |
|--------------|---|-----------------|------------|--------------------|-----------------------|----------------|--------------------|----------------------------|--|
| 658 | Combined reagent | <u>WP111414</u> | 01/15/2025 | 01/16/2025 | Niha Farheen Shaik | None | Glass Pipette-A | 01/16/2025 | |
| FROM | FROM 15.00000ml of WP110587 + 30.00000ml of WP111413 + 5.00000ml of WP110588 + 50.00000ml of WP110380 = Final Quantity: | | | | | | | | |

15.00000ml of WP110587 + 30.00000ml of WP111413 + 5.00000ml of WP110588 + 50.00000ml of WP110380 = Final Quantity: 100.000 ml

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipettelD</u> | Supervised By Iwona Zarvch |
|--------------|---------------------------|-----------------|------------|--------------------|-----------------------|-------------------------|------------------|----------------------------|
| 1213 | Phenolphthalein indicator | <u>WP111415</u> | 01/15/2025 | 06/04/2025 | Niha Farheen Shaik | WETCHEM_S CALE_5 (WC | None | 01/16/2025 |

0.10000gram of W2650 + 50.00000ml of W2788 + 50.00000ml of W3112 = Final Quantity: 100.000 ml **FROM**



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych | | |
|--------------|---------------------------------|-----------------|------------|--------------------|----------------|----------------|-----------------------|----------------------------|--|--|
| 1322 | Ammonia Intermediate Std, 50PPM | <u>WP111419</u> | 01/16/2025 | 02/16/2025 | Rubina Mughal | None | WETCHEM_F IPETTE_3 | , | | |
| FROM | (WC) | | | | | | | | | |

| 1 11011 | | |
|---------|------|--|
| | | |
| | | |

| Recipe ID | NAME. | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|--|-----------------|------------|--------------------|----------------|----------------|-------------------------------|----------------------------|
| 1639 | Ammonia Intermediate Std-Second source, 50PPM | <u>WP111420</u> | 01/16/2025 | 02/16/2025 | Rubina Mughal | None | WETCHEM_F IPETTE_3 (WC) | 01/16/2025 |

FROM 95.00000ml of W3112 + 5.00000ml of WP110150 = Final Quantity: 100.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe | | | | Expiration | Prepared | | | Supervised By | |
|---|----------------------------------|----------|------------|-------------|---------------|----------------|-----------------------|---------------|--|
| <u>ID</u> | NAME | NO. | Prep Date | <u>Date</u> | Ву | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych | |
| 275 | Ammonia Calibration Std. (2 ppm) | WP111423 | 01/16/2025 | 01/17/2025 | Rubina Mughal | None | WETCHEM_F IPETTE 3 | | |
| FROM 48.00000ml of W3112 + 2.00000ml of WP111419 = Final Quantity: 50.000 ml (WC) | | | | | | | | | |

| <u>FROM</u> | 48.00000ml of W3112 + 2.00000m | i of WP111419 = Finai | Quantity: 50.000 mi |
|-------------|--------------------------------|-----------------------|---------------------|
| | | | |

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|--------------------------|------------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Iwona Zarych |
| 285 | Ammonia CCV Std. (1 ppm) | WP111424 | 01/16/2025 | 01/17/2025 | Rubina Mughal | None | WETCHEM_F | 1 |
| | | | | | | | IPETTE_3 | 01/16/2025 |

49.00000ml of W3112 + 1.00000ml of WP111419 = Final Quantity: 50.000 ml **FROM**



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Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME_ | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|--------------|---------------------------------|--|---------------|--------------------|----------------|----------------|-----------------------|----------------------------|
| 286 | Ammonia ICV Std. (1 ppm) | <u>WP111425</u> | 01/16/2025 | 01/17/2025 | Rubina Mughal | None | WETCHEM_F IPETTE 3 | |
| БРОМ | 40.0000ml of W2442 + 4.0000ml o | £ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |) – Final Oua | | | | (WC) | 01/16/2025 |

| <u>FROM</u> | 49.00000ml of W3112 | 2 + 1.00000ml of WP111420 | = Final Quantity: 50.000 mi |
|-------------|---------------------|---------------------------|-----------------------------|
| | | | |

| Reci ID | e NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Iwona Zarych |
|------------|--|----------------|------------|--------------------|----------------|-------------------------|------------------|----------------------------|
| 11 | Sodium hydroxide absorbing solution 0.25 N | <u>WP99896</u> | 11/15/2022 | 05/15/2023 | Jignesh Parikh | WETCHEM_S CALE 4 (WC | None | 11/15/2022 |
| | 001011011012011 | | | | | SC-4) | | 11/13/2022 |

FROM 21.00000L of W2606 + 210.00000gram of W2845 = Final Quantity: 21.000 L



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|---|------------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 07/01/2025 | 01/03/2024 / Rajesh | 07/20/2023 / Rajesh | E3551 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 23D2462010 | 03/20/2028 | 09/21/2023 / mohan | 09/05/2023 / mohan | M5673 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | 140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK | 80A0441 | 02/29/2028 | 09/03/2024 / jignesh | 08/19/2024 / Jaswal | M6069 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 0000275677 | 05/13/2025 | 11/13/2024 / Eman | 10/13/2024 / Eman | M6121 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / | Chemtech Lot # |
| PCI Scientific Supply, Inc. | J0660-1 / AMMONIUM CHLORIDE, ACS, 500G | WL13B | 04/08/2025 | 04/08/2015 / apatel | 04/08/2015 / apatel | W1992 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific | J0660-1 / AMMONIUM | XE09B | 04/08/2025 | 04/08/2015 / | 04/08/2015 / | W1993 |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|---|---------------------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | A1561-500GM / POTASSIUM ANTIMONY TARTRATE TRIHYDRATE, 500G | 2GH0057 | 12/11/2027 | 12/11/2017 / apatel | 12/11/2017 / apatel | W2306 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 10/24/2024 | 10/24/2019 / apatel | 10/24/2019 / apatel | W2606 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | J2870-1 / PHENOLPHTHALEIN, INDICATOR F/TITRATION, 500G | 0000235350 | 06/04/2025 | 01/31/2020 / AMANDEEP | 01/20/2020 / apatel | W2650 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | AC156212500 / GLUTAMIC ACID BIOCHEM REG, 250G | A0405990 | 01/24/2030 | 01/24/2020 / apatel | 01/24/2020 / apatel | W2653 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / | Chemtech Lot # |
| PCI Scientific Supply, Inc. | D16-500 / DEXTROSE ANHYDROUS ACS REAGENT, 500G(New) | 186122A | 01/24/2030 | 01/24/2020 / apatel | 01/24/2020 / apatel | W2654 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | J07716-1 / Ammonium Molybdate 500G | 0000234410 | 02/11/2026 | 02/10/2020 / AMANDEEP | 01/31/2020 / apatel | W2664 |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|--|------------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | 87683 / Sodium Nitroferricyanide 250g | W12F013 | 02/10/2030 | 02/10/2020 / apatel | 02/10/2020 / apatel | W2666 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | J3246-1 / POTAS PHOSPHATE, MONO, CRYS, ACS, 500G | 04/2019-20 | 04/23/2025 | 04/23/2020 / apatel | 03/11/2020 / apatel | W2699 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | J3568-1 / Sodium Borate, 500 gms | 2019111354 | 04/23/2025 | 04/23/2020 / apatel | 03/11/2020 / apatel | W2700 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | J3246-1 / POTAS PHOSPHATE, MONO, CRYS, ACS, 500G | 99/2019-20 | 05/05/2025 | 05/05/2020 / apatel | 05/05/2020 / apatel | W2708 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 0000263246 | 06/17/2023 | 12/23/2020 / ketankumar | 12/23/2020 / ketankumar | W2783 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / | Chemtech Lot # |
| | | | 06/23/2025 | 12/30/2020 / | 12/30/2020 / | |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|--|------------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | PC19510-7 / Sodium Hydroxide Pellets 12 Kg | 21C2456604 | 01/31/2024 | 03/30/2022 / JIGNESH | 06/24/2021 / apatel | W2845 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | P1060-10 / PHENOL, ACS, 500G | M13H048 | 01/07/2026 | 07/07/2021 / apatel | 07/07/2021 / apatel | W2858 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / | Chemtech Lot # |
| Supelco | 90157 / Cyanide Standard, 1000ppm from Supelco | HC03107133 | 06/30/2023 | 01/24/2022 / apatel | 01/24/2022 / apatel | W2898 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | 31390 / 1,5-Diphenylcarbazide | MKCR6636 | 12/09/2027 | 12/09/2022 / Iwona | 12/09/2022 / Iwona | W2979 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / | Chemtech Lot # |
| PCI Scientific Supply, Inc. | BDH0214-500G / Ammonium Persulfate Crystal, 500g | MKCR9319 | 06/30/2028 | 03/05/2024 / Iwona | 06/06/2023 / Iwona | W3035 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific | 136742-80 / POLYSEED | 152305 | 05/30/2025 | 02/15/2024 / Rubina | 10/18/2023 / Iwona | W3059 |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|---|----------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | J0938-7 / Ascorbic Acid, 500 gms | MKCS4627 | 09/30/2025 | 01/16/2024 / Iwona | 01/16/2024 / Iwona | W3074 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | 4620-32 / MANGANOUS SULFATE SOLUTION-364 | 2403J02 | 03/31/2026 | 04/22/2024 / Iwona | 04/22/2024 / Iwona | W3103 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE | 4403S13 | 09/30/2025 | 04/22/2024 / Iwona | 04/22/2024 / Iwona | W3105 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | AL04100-4 / Alkaline lodide Azide, 1 L | 1405D67 | 04/30/2026 | 05/23/2024 / Iwona | 05/23/2024 / Iwona | W3109 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 235898 | 02/28/2029 | 06/27/2024 / jignesh | 06/26/2024 / jignesh | W3110 |
| | - | 1 | Evaluation | Data Onemad / | Descined Date / | Chemtech |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Lot # |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|--|---------------------|--------------------|----------------------------|--------------------------------|-------------------|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | PC19510-7 / Sodium Hydroxide Pellets 12 Kg | 23B1556310 | 12/31/2025 | 07/08/2024 / Iwona | 07/08/2024 / Iwona | W3113 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Environmental Express LTD | B1010 / COD Digestion Vials Low Level 0-150Mg/L | 13798 | 09/30/2027 | 12/06/2024 / Iwona | 07/25/2024 / Iwona | W3125 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | PC05050-1 / EDTA, disodium salt, dihydrate 1 lb | 2ND0156 | 07/10/2026 | 07/26/2024 / Iwona | 07/26/2024 / Iwona | W3132 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| | 140476 / Test Paper,PH | L23 | 08/22/2029 | 08/22/2024 / | 08/22/2024 / | W3133 |
| PCI Scientific Supply, Inc. | Short Range 9.0/10.0 | | | lwona | lwona | VV3133 |
| | - I | Lot # | Expiration Date | Date Opened / Opened By | Received Date / | Chemtech |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|---|------------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | J9416-1 / Sodium Hypochlorite 500 ml | 2407F34 | 01/31/2025 | 09/30/2024 / Iwona | 09/30/2024 / Iwona | W3143 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| HACH | 1486266 / BOD Nutrient Buffer Pillows, 6 mL concentrate to make 6 L, 50/pk | A4169 | 06/30/2029 | 11/20/2024 / rubina | 10/01/2024 / Iwona | W3144 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | AL70850-8 / Starch Solution, 4L | 4408P62 | 08/31/2026 | 10/16/2024 / lwona | 10/16/2024 / Iwona | W3149 |
| | | | Expiration | Date Opened / | Received Date / | Chemtech |
| Supplier | ItemCode / ItemName | Lot # | Date | Opened By | Received By | Lot # |
| PCI Scientific Supply, Inc. | 140730 / TEST PAPER,POT.IOD-STRCH,P K100,CS12 | 14-860 | 12/02/2029 | 12/02/2024 / Iwona | 12/02/2024 / Iwona | W3155 |
| | | | | | | |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | P243-500 / Potassium Hydrogen Phthalate, 500 gms | 24H0956262 | 04/28/2026 | 01/03/2025 / lwona | 01/03/2025 / Iwona | W3169 |



CERTIFICATE OF ANALYSIS

Printed:

12/8/2017

Page 1 of 1

Customer No:

30017

Customer: PCI SCIENTIFIC

Order Number:

3008126

58495347

Customer PO:

6035343

Catalog:

A1561

Delivery #: Potassium Antimony Tartrate Trihydrate,

Lot: 2GH0057

Reagent, ACS

W2306

Formula Weight: 667.87

 $\begin{array}{ccc} \textbf{Chemical Formula:} & C_8H_4K_2O_{12}Sb_2.3H_2O\\ & \textbf{CAS\#:} & 28300\text{-}74\text{-}5 \end{array}$

Received Mills

| Test | Limit | Results |
|---|----------------|--------------|
| | Min. Max. | |
| ASSAY (C ₈ H ₄ K ₂ O ₁₂ Sb ₂ .3HO) | 99.0 - 103.0 % | 101.0 % |
| TITRATABLE ACID OR BASE | 0.020 meq/g | <0.020 meq/g |
| LOSS ON DRYING | 2.7 % | <2.7 % |
| ARSENIC (As) | 0.015 % | <0.015 % |
| APPEARANCE | | WHITE POWDER |
| DATE OF MANUFACTURE | | 29-DEC-2015 |

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and MSDS/SDS before handling any chemical. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. The customer must ensure to provide its users adequate hazardous material training and appropriate protective gears before handling our chemicals.

Certificate of Analysis Results Certified By:



Date of Release: 12/18/2013



size codes

Grade: Meets ACS Specifications CAS #: 12125-02-9

Country of Origin: India FW: 53.49

Lot No.: WL13B ClH_4N

| Requirement | | | | |
|-----------------------------|----------------|---------|----------------|-----|
| Characteristic | Minimum | Maximum | Results | UOM |
| Assay (argentometric) | 99.5 | | 99.9 | % |
| Calcium (Ca) | | 0.001 | 0.0001 | % |
| Form | White crystals | | White crystals | |
| Heavy metals (as Pb) | | 5 | 5 | ppm |
| Identification | To pass test | | Passes | |
| Insoluble matter | | 0.005 | 0.002 | % |
| Iron (Fe) | | 2 | 2 | ppm |
| Loss on drying (105 C) | | 0.5 | 0.21 | % |
| Magnesium (Mg) | | 5 | 0.6 | ppm |
| pH of a 5% solution at 25 C | 4.5 | 5.5 | 4.76 | |
| Phosphate (PO4) | | 2 | 2 | ppm |
| Residue after ignition | | 0.01 | 0.002 | % |
| Sulfate (SO4) | | 0.002 | 0.002 | % |
| | | | | |

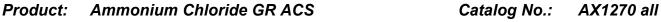
Joe Schoellkopff

Quality Control Manager

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F 7.5.3-3 Q # 016969 MA5666 WL13BCOA WL13

Date of Release: 5/12/2014



size codes

Grade: Meets ACS Specifications CAS #: 12125-02-9

Country of Origin: India FW: 53.49

Lot No.: XE09B ClH_4N

| Requirement | | | | |
|-----------------------------|----------------|---------|----------------|-----|
| Characteristic | Minimum | Maximum | Results | UOM |
| Assay (argentometric) | 99.5 | | 99.8 | % |
| Calcium (Ca) | | 0.001 | 0.0001 | % |
| Form | White crystals | | White crystals | |
| Heavy metals (as Pb) | | 5 | 5 | ppm |
| Identification | To pass test | | Passes | |
| Insoluble matter | | 0.005 | 0.002 | % |
| Iron (Fe) | | 2 | 2 | ppm |
| Loss on drying (105 C) | | 0.5 | 0.22 | % |
| Magnesium (Mg) | | 5 | 0.7 | ppm |
| pH of a 5% solution at 25 C | 4.5 | 5.5 | 4.95 | |
| Phosphate (PO4) | | 2 | 2 | ppm |
| Residue after ignition | | 0.01 | 0.002 | % |
| Sulfate (SO4) | | 0.002 | 0.002 | % |

Joe Schoellkopff

Quality Control Manager

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F 7.5.3-3 Q # 017800 MA5666 XE09BCOA HMXE09



Subject to Vadodara Jurisdiction

CHAMPA PURIE-CHEM INDUSTRIES

ISO 9001: 2015 CERTIFIED COMPANY

Importers Exporters Manufacturers & Marketing of Fine Chemicals & Pharmaceuticals

262-263, G.I.D.C. Estate, Makarpura, Vadodara - 390 010. Gujarat - INDIA. Phone: (F) +91-265-2638314 / 2643723 Fax : (F) +91-265-2638036 E-mail: info@cpcindia.com Web : www.cpcindia.com

CERTIFICATE OF ANALYSIS

PRODUCT : POTASSIUM PHOSPHATE MONOBÁSIC Anhy. - ACS CERTIFICATE NO DATE 13-05-2019 04/2019-20 Quantity: 1000 KGS. Date of receipt of sample 29.04.2019 Batch No. /Lot No. 04/2019-20 : April-2019 Mfg. Date 1. Characteristic : A White powder 2. Identification Positive RESULT LIMITS OBTAINED : 10% solution is clear and colourless 3. Clearity and colour of solution Min.99.00% 4. Assay (on dry basis) 99.35% 5. PH (5% solution) 4.28 4.1-4.5 6. Loss on Drying 0.06% Max 0.2% 7. Heavy Metals 0.0004% Max.0.001% 8. iron 0.001% Max 0.002% 0.0015% Max. 0.003% 9. Sulphate 10. Chloride 0.0005% Max.0.001% 11. Insoluble Matter 0.002% Max. 0.01%

0.0038%

The sample does comply with specification as per Above,

Analysed by 3. A. PATHAK

12. Sodium

Quality Control Department

Max. 0.005%



1.19533.0500 Cyanide standard solution traceable to SRM from NIST K₂[Zn(CN)₄] in H₂O

1000 mg/I CN Certipur®

HC03107133 **Batch**

| | | | | | |
|---------------|----------------------|--------------|------|------|--|
| | | Batch Values | | | |
| Concentration | β (CN ⁻) | 1002 | mg/l | | |

Determination method: Argentometric titration.

The content of this solution was determined with silver nitrate standard solution (article number 1.09081) standardized against volumetric standard sodium chloride (article number 1.02406). The expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor for 95% of the expanded measurement uncertainty is \pm 0.7 % (k=2 coverage factor fac coverage probability). The certified value is traceable to primary standard NIST SRM 999c (NIST: National Institute of Standards and Technology, USA) by means of volumetric standard sodium chloride, measured in the accredited calibration laboratory of Merck KGaA, Darmstadt, Germany in accordance to DIN EN ISO/IEC 17025.

Date of release (DD.MM.YYYY) 02.07.2020 Minimum shelf life (DD.MM.YYYY) 30.06.2023

Ayfer Yildirim

Responsible laboratory manager quality control

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Ammonium Molybdate, 4-Hydrate, Crystal BAKER ANALYZED® A.C.S. Reagent

(ammonium heptamolybdate, tetrahydrate)



Material No.: 0716-01 Batch No.: 0000234410

Manufactured Date: 2019/02/13 Retest Date: 2026/02/11

Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

| Test | Specification | Result |
|--|---------------|---------|
| Assay (as MoO ₃) | 81.0 - 83.0 % | 81.4 |
| ACS – Insoluble Matter | <= 0.005 % | < 0.001 |
| Chloride (Cl) | <= 0.002 % | < 0.002 |
| Nitrate (NO3) | Passes Test | PT |
| Arsenate, Phosphate and Silicate (as SiO2) | <= 0.001 % | < 0.001 |
| ACS – Phosphate (PO4) | <= 5 ppm | < 5 |
| Sulfate (SO ₄) | <= 0.02 % | < 0.02 |
| Heavy Metals (as Pb) | <= 0.001 % | < 0.001 |
| Magnesium (Mg) | <= 0.005 % | < 0.001 |
| Potassium (K) | <= 0.01 % | < 0.01 |
| Sodium (Na) | <= 0.01 % | < 0.001 |

For Laboratory, Research or Manufacturing Use Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC



Phenolphthalein, Powder BAKER ANALYZED® A.C.S. Reagent



Material No.: 2870-01 Batch No.: 0000235350

Manufactured Date: 2018/06/06

Retest Date: 2025/06/04 Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

| Test | Specification | Result |
|--|---------------|--------|
| ACS - Clarity of Solution | Passes Test | PT |
| Visual Transition Interval - pH8.0 (Colorless) | Passes Test | PT |
| Visual Transition Interval – pH10.0 (Red) | Passes Test | PT |

For Laboratory, Research or Manufacturing Use

Country of Origin: CN

Packaging Site: Paris Mfg Ctr & DC



Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9254-03 Batch No.: 0000263246

Manufactured Date: 2020/06/17 Expiration Date: 2023/06/17

Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titrable Acid (µeq/g) | <= 0.3 | 0.1 |
| Titrable Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H₂O) | <= 0.5 % | 0.3 |
| FID–Sensitive Impurities (as 2–Octanol) Single Impurity Peak (ng/mL) | <= 5 | < 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | <= 10 | 5 |

For Laboratory, Research or Manufacturing Use MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC





W2858 Received by AP on 07/07/2021

Product No.: 33213

Product: Phenol, ACS, 99+%, stab.

Lot No.: M13H048

| Test | Limits | Results |
|---------------------------|--------------|----------|
| Assay | 99.0 % min | 99.8 % |
| Freezing point | 40.5°C min | 40.5 °C |
| Clarity of solution | To pass test | Passes |
| Residue after evaporation | 0.05 % max | < 0.05 % |
| Water | 0.5 % max | 0.2 % |

Retest date: January 7, 2026

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W2666 Recived on 02/10/2020 by AP

Product No.: 87683

Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS,

99.0-102.0%

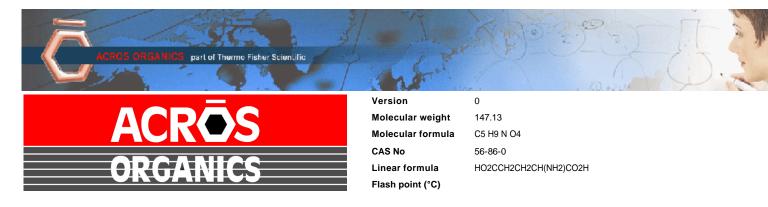
Lot No.: W12F013

| Test | Limits | Results |
|-----------------------|----------------|--------------|
| | | |
| Assay | 99.0 - 102.0 % | 99.67 % |
| Insoluble | 0.01 % max | 0.0079 % |
| Chloride | 0.02 % max | Not detected |
| Sulfate | To pass test | Passes test |
| Aqueous solubility | To pass test | Passes test |
| Limit on Ferricyanide | To pass test | Passes test |
| Limit on Ferrocyanide | To pass test | Passes test |

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| Catalog Number | 15621 | Quality Test / Release Date | 13 March 2019 | |
|-----------------------|------------------------|-----------------------------|---------------|--|
| Lot Number | A0405990 | Suggested Retest Date | March 2022 | |
| Description | L(+)-Glutamic acid,99% | | | |
| Country of Origin | CHINA | | | |
| Declaration of Origin | plant | | | |

| Origin Comment | The product is made by fermentation of sugar molasses | |
|----------------|---|--|
|----------------|---|--|

| Result Name | Specifications | Test Value |
|---------------------------|--|--|
| Appearance (Color) | White | White |
| Appearance (Form) | Powder | Powder |
| Infrared spectrum | Conforms | Conforms |
| Titration with NaOH | 98.5 to 100.5 % (On dried substance) | 99.32 % (On dried substance) |
| Loss on drying | =<0.5 % (105°C, 3 hrs) | 0.002 % (105°C, 3 hrs) |
| Heavy metals (as Pb) | =<10 ppm | =<10 ppm |
| Sulfated ash | =<0.1 % | 0.08 % |
| Other amino acids | not detectable | not detectable |
| Specific optical rotation | +30.5° to +32.5° (20°C, 589 nm) (on dried substance) | +32° (20°C, 589 nm) (on dried substance) |
| Specific optical rotation | (c=10, 2N HCI) | (c=10, 2N HCI) |
| Chloride (CI) | =<200 ppm | =<200 ppm |
| Iron (Fe) | =<30 ppm | =<10 ppm |
| Sulfate (SO4) | =<300 ppm | =<200 ppm |
| Ammonium (NH4) | =<200 ppm | =<200 ppm |
| Arsenic oxide (As2O3) | =<1 ppm | =<1 ppm |





L. Van den Broek, QA Manager

Acros Organics ENA23, zone 1, nr 1350, Janssen Pharmaceuticalaan 3a, B-2440 Geel, Belgium Tel +32 14/57.52.11 - Fax +32 14/59.34.34 Internet: http://www.acros.com 1 Reagent Lane, Fair Lawn, NJ 07410,USA Fax 201-796-1329

Issued: 24 January 2020



CERTIFICATE OF ANALYSIS

Product Name ISOPROPYL ALCOHOL, 99%

Grade Meets ACS/USP/NF Monographs

Catalog # 231000099, zp231000099

Lot # C20F23007

Date of Manufacture: 06/23/20 W2788 Received on 12/30/2020 by AP

Recommended Retest Date: Five Years from Date of Manufacture

| TEST | MONO GRAPH | SPECIFICATION | RESULT |
|--|------------------|---|-------------------------|
| Assay (corrected for water) | USP | 99.0% min | 99.92% |
| Assay (corrected for water) | ACS | 99.5% min | 99.92% |
| Solubility in water | ACS ⁺ | To Pass Test | Pass |
| Appearance | ACS ⁺ | Clear, colorless liquid | Pass |
| Color, APHA | ACS | 10 max | 1 |
| Limit of Nonvolatile Residue | USP⁺ | NMT 2.5 mg (0.005%) | 0.1 mg |
| Residue after Evaporation | ACS ⁺ | 0.001% max | < 0.001% |
| Specific Gravity | USP | 0.783 - 0.787 @25°C | 0.783 |
| Identification A - Infrared Absorption | USP | To Pass Test | Pass |
| Identification B | USP | To Pass Test | Pass |
| Refractive Index @ 20°C | USP | 1.376-1.378 | 1.377 |
| Acidity | USP⁺ | NMT 0.70 ml of 0.020N NaOH is required | 0.30 mL |
| Titrable Acid or Base | ACS ⁺ | 0.0001 meq/g max | 0.0001 meq/g |
| Caula and Causa and a | ACC | Propionaldehyde 0.002% max | < 0.002% |
| Carbonyl Compounds | ACS | Acetone 0.002% max | None Detected |
| | | Diethyl Ether NMT 0.1% Acetone NMT 0.1% | < 0.1% None Detected |
| Limit of Malatila Image with a | USP | Diisopropyl Ether NMT 0.1% | < 0.1% |
| Limit of Volatile Impurities | USP | n-Propyl Alcohol NMT 0.1% | < 0.1% |
| | | 2-Butanol NMT 0.1% | < 0.1% |
| | | Total NMT 1.0% | < 0.1% |
| Water, wt% | ACS | NMT 0.2% | 0.05% |
| Water Determination | USP | NMT 0.5% | 2.00/3 |

[†]This test is performed quarterly



Certification and Compliance Statements

This lot of Isopropyl Alcohol complies with all of the current requirements listed in the United States Pharmacopeia, American Chemical Society monographs and the National Formulary.

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of Isopropyl Alcohol. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in IPA Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467>.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.

Approved by: D. Simoncelli, Quality Control Chemist

Deal Sind

Date of Approval: 06/23/2020

Sigma-Aldrich

W 3035 12 lec. 6/6/23 3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Product Name:

Certificate of Analysis

(NH₄)₂S₂O₈

Ammonium persulfate - ACS reagent, ≥98.0%

Product Number:

248614

Batch Number:

MKCR9319

Brand:

SIGALD

CAS Number:

SIGALD

MDL Number:

7727-54-0

Formula Weight:

MFCD00003390 228.20 g/mol

Quality Release Date:

13 OCT 2022

| Test | Specification | Result |
|-------------------------------|---------------------------------------|---------------|
| Appearance (Color) | White to Off White | White |
| Appearance (Form) | Powder or Crystals or Granules or Cho | unks Crystals |
| ICP Major Analysis | Confirmed | Confirmed |
| Confirms Sulfur Component | | |
| Titration by KMNO4 | ≥ 98.0 % | 100.0 % |
| Residue on ignition (Ash) | <pre>< 0.05 %</pre> | < 0.05 % |
| Insoluble Matter | ≤ 0.005 % | 0.002 % |
| c = 10 %; In Water | _ | |
| Chloride and Chlorate (as CI) | <u><</u> 0.001 % | < 0.001 % |
| Iron (Fe) | <u><</u> 0.001 % | < 0.001 % |
| Heavy Metal | <u><</u> 0.005 % | < 0.001 % |
| as Lead | 0.5 | . 0.4 |
| Manganese (Mn) | < 0.5 ppm | < 0.1 ppm |
| Titratable Acid (meq/g) | <u>≤</u> 0.04 | < 0.04 |
| Meets ACS Requirements | Current ACS Specification | Conforms |

Larry Coers, Director Quality Control Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





CERTIFICATE OF ANALYSIS

PO BOX 130549 Spring, TX 77393 Phone: (281) 298-9410 Fax: (281) 298-9411

FINISHED PRODUCT, LOT NUMBER, MFG. /EXP DATE:

PolySeed® • Part No. P-110 • Lot 152305 • Mfg. Date: 05/2023 • Exp. Date: 05/2025

FORMULATION:

The formulation for this product contains a range of naturally occurring microorganisms, which are known to be non-pathogenic to man or animals.

VIABLE COUNT, FINAL TEST RESULT:

The product has been fully tested in accordance with Finished Product Specifications and contains a minimum viable count of 4.00 x10⁹ cfu/a.

GLUCOSE/GLUTAMIC-ACID RESULTS:

Tested results within acceptable range 198 +/- 30.5 mg/L (167.5 - 228.5 mg/L). GGA Lot# L257-09 – Average Test Result: 203.4

See www.polyseed.com for details.

SEED CONTROL FACTOR:

Tested results within acceptable range 0.6 – 1.0 see www.polyseed.com for details

SALMONELLA TEST RESULT:

The product has been shown to be Salmonella negative using procedures recommended in the Microbiology Laboratory Guidebook, published by the USDA Food Safety and Inspection Service.

The purpose of this document is to assure that the Finished Product conforms to the above specification.

Signature:

Date: 05/15/2023

Quality Control Department

POLYSEED.Ref.1.19

Revised Jan 23







Date of Release: 11/14/2019

Name: Sodium Borate, Decahydrate

ACS

Item No: **SX0355 All Sizes**Lot / Batch No: **2019111354**Country of Origin: **India**

W2700 Recived by AP on 3/11/2020

| Item | Specifications | Analysis |
|--------------------------------|----------------|-------------|
| Assay (Na2B4O7 • 10H2O) | 99.5 - 105.0% | 101.7% |
| Calcium (Ca) | 0.005% max. | 0.003% |
| Chloride (CI) | 0.001% max. | <0.001% |
| Color | White | Passes Test |
| Form | Crystals | Passes Test |
| Heavy Metals (as Pb) | 0.001% max. | <0.001% |
| Insoluble Matter | 0.005% max. | 0.002% |
| Iron (Fe) | 5 ppm max. | <5 ppm |
| pH of a 0.01 M solution at 25C | 9.15 - 9.20 | 9.17 |
| Phosphate (PO4) | 0.001% max. | <0.001% |
| Sulfate (SO4) | 0.005% max. | <0.005% |

Joe Schoellkopff

Quality Control Manager

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EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation

400 Summit Drive Burlington, MA 01803 U.S.A.

Form number: 00005624CA, Rev. 2.0

Certificate of Analysis Page 1 of 1



Certificate of Analysis

1 Reagent Lane Fair Lawn, NJ 07410 201.796.7100 tel 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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| Catalog Number | D16 | Quality Test / Release Date | 03/19/2019 |
|-------------------|---|-----------------------------|------------|
| Lot Number | 186122A | | |
| Description | DEXTROSE, ANHYDROUS, A.C.S. | | |
| Country of Origin | United States | Suggested Retest Date | Mar/2022 |
| Chemical Origin | Organic - Plant | | |
| BSE/TSE Comment | No animal products are used as starting processing aids, or any other material that | • | |
| Chemical Comment | | | |

| N/A | | | |
|--------------------------|------------------|---------------------------------|------------------------|
| Result Name | Units | Specifications | Test Value |
| APPEARANCE | | REPORT | White, granular powder |
| TITRATABLE ACID | MEQ/G | <= 0.002 | <0.002 |
| STARCH | | = PASS TEST | pass test |
| SPECIFIC ROTATION @ 25 C | DEGREES (+ OR -) | Inclusive Between +52.5 - +53.0 | 53.0 |
| SULFATE & SULFITE | % | <= 0.005 | <0.005 |
| IRON (Fe) | ppm | <= 5 | <5 |
| CHLORIDE | % | <= 0.01 | <0.01 |
| IGNITION RESIDUE | % | <= 0.02 | <0.02 |
| IDENTIFICATION | PASS/FAIL | = PASS TEST | pass test |
| HEAVY METALS (as Pb) | ppm | <= 5 | <5 |
| LOSS ON DRYING @ 105 C | % | <= 0.2 | <0.2 |
| INSOLUBLE MATTER | % | <= 0.005 | 0.002 |

Derisa Bailey- Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn



MIRADOR 201, COL. MIRADOR MONTERREY, N.L. MEXICO CP 64070 TEL +62 81 13 52 57 57 www.pqm.com,mx

CERTIFICATE OF ANALYSIS

PRODUCT:

SODIUM SULFATE CRYSTALS ANHYDROUS

QUALITY:

ACS (CODE RMB3375)

FORMULA:

Na₂SO₄

SPECIFICATION NUMBER: 6399

RELEASE DATE:

ABR/21/2023

LOT NUMBER:

313201

| TEST | SPECIFICATIONS | LOT VALUES |
|--|----------------|-------------|
| Assay (Na ₂ SO ₄) | Min. 99.0% | 99.7 % |
| pH of a 5% solution at 25°C | 5.2 - 9.2 | 6.1 |
| Insoluble matter | Max. 0.01% | 0.005 % |
| Loss on ignition | Max. 0.5% | 0.1 % |
| Chloride (Cl) | Max. 0.001% | <0.001 % |
| Nitrogen compounds (as N) | Wax. 5 ppm | <5 ppm |
| Phosphate (PO ₄) | Max. 0.001% | <0.001 % |
| Heavy metals (as Pb) | Max. 5 ppm | <5 ppm |
| Iron (Fe) | Max. 0.001% | <0.001 % |
| Calcium (Ca) | Max. 0.01% | 0.002 % |
| Magnesium (Mg) | Max. 0.005% | 0.001 % |
| Potassium (K) | Max. 0.008% | 0.003 % |
| Extraction-concentration suitability | Passes test | Passes test |
| Appearance | Passes test | Passes test |
| Identification | Passes test | Passes test |
| Solubility and foreing matter | Passes test | Passes test |
| Retained on US Standard No. 10 sieve | Max. 1% | 0.1 % |
| Retained on US Standard No. 60 sieve | Min. 94% | 97.3 % |
| Through US Standard No. 60 sieve | Max. 5% | 25% |
| Through US Standard No. 100 sieve | Max. 10% | 0.1 % |

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by Ri on 7/4/3 E 3551

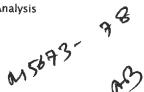
RE-02-01, Del

Sulfuric Acid BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium









Material No.: 9673-33 Batch No.: 23D2462010

Manufactured Date: 2023-03-22

Retest Date: 2028-03-20 Revision No.: 0

Certificate of Analysis

| Test | Specification | Result | _ |
|---|---------------|-------------|---|
| ACS – Assay (H ₂ SO ₄) | 95.0 - 98.0 % | 96.1 % | _ |
| Appearance | Passes Test | Passes Test | |
| ACS – Color (APHA) | ≤ 10 | 5 | |
| ACS – Residue after Ignition | ≤ 3 ppm | < 1 ppm | |
| ACS - Substances Reducing Permanganate (as SO2) | ≤ 2 ppm | < 2 ppm | |
| Ammonium (NH ₄) | ≤ 1 ppm | 1 ppm | |
| Chloride (Cl) | ≤ 0.1 ppm | < 0.1 ppm | |
| Nitrate (NO ₃) | ≤ 0.2 ppm | < 0.1 ppm | |
| Phosphate (PO ₄) | ≤ 0.5 ppm | < 0.1 ppm | |
| Trace Impurities - Aluminum (AI) | ≤ 30.0 ppb | < 5.0 ppb | |
| Arsenic and Antimony (as As) | ≤ 4.0 ppb | < 2.0 ppb | |
| Trace Impurities - Boron (B) | ≤ 10.0 ppb | 8.5 ppb | |
| Trace Impurities – Cadmium (Cd) | ≤ 2.0 ppb | < 0.3 ppb | |
| Trace Impurities – Chromium (Cr) | ≤ 6.0 ppb | < 0.4 ppb | |
| Trace Impurities - Cobalt (Co) | ≤ 0.5 ppb | < 0.3 ppb | |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb | |
| Trace Impurities – Gold (Au) | ≤ 10.0 ppb | 0.5 ppb | |
| Heavy Metals (as Pb) | ≤ 500.0 ppb | < 100.0 ppb | |
| Trace Impurities - Iron (Fe) | ≤ 50.0 ppb | 1.3 ppb | |
| Trace Impurities - Lead (Pb) | ≤ 0.5 ppb | < 0.5 ppb | |
| Trace Impurities – Magnesium (Mg) | ≤ 7.0 ppb | 0.8 ppb | |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb | |
| Trace Impurities - Mercury (Hg) | ≤ 0.5 ppb | < 0.1 ppb | |
| Trace Impurities - Nickel (Ni) | ≤ 2.0 ppb | 0.3 ppb | |
| Trace Impurities – Potassium (K) | ≤ 500.0 ppb | < 2.0 ppb | |
| Trace Impurities - Selenium (Se) | ≤ 50.0 ppb | < 0.1 ppb | |
| Trace Impurities - Silicon (Si) | ≤ 100.0 ppb | 31.5 ppb | |
| Trace Impurities – Silver (Ag) | ≤ 1.0 ppb | < 0.3 ppb | |
| | | | |

>>> Continued on page 2 >>>

Sulfuric Acid BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis Low Selenium





Material No.: 9673-33 Batch No.: 23D2462010

| Test | Specification | Result |
|-----------------------------------|---------------|-----------|
| Trace Impurities – Sodium (Na) | ≤ 500.0 ppb | 5.4 ppb |
| Trace Impurities - Strontium (Sr) | ≤ 5.0 ppb | < 0.2 ppb |
| Trace Impurities – Tin (Sn) | ≤ 5.0 ppb | < 0.8 ppb |
| Trace Impurities - Zinc (Zn) | ≤ 5.0 ppb | 0.4 ppb |

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA Packaging Site: Phillipsburg Mfg Ctr & DC





Product information

Product

pH-Fix 0.3-2.3

REF

92180

LOT

80A0441

Expiration date:

29.02.2028

Date of examination:

23.01.2024

Gradation:

pH 0.3-0.7-1.0-1.3-1.6-1.9-2.3

Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9001 and meets the specific quality criteria.

This document has been produced electronically and is valid without a signature.

US Tel.: +1 888 321 62 24 sales-us@mn-net.com

Hydrochloric Acid, 36.5-38.0% BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis





R->16/13/24 Met dig

M 6/21

Material No.: 9530-33 Batch No.: 0000275677 Manufactured Date: 2020/12/16 Retest Date: 2025/12/15

Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|---------|
| ACS - Assay (as HCl) (by acid-base titrn) | 36.5 - 38.0 % | 37.6 |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | 1 |
| ACS - Specific Gravity at 60°/60°F | 1.185 – 1.192 | 1.190 |
| ACS – Bromide (Br) | <= 0.005 % | < 0.005 |
| ACS - Extractable Organic Substances | <= 5 ppm | 1 |
| ACS - Free Chlorine (as Cl2) | <= 0.5 ppm | < 0.5 |
| Phosphate (PO ₄) | <= 0.05 ppm | < 0.03 |
| Sulfate (SO ₄) | <= 0.5 ppm | < 0.3 |
| Sulfite (SO ₃) | <= 0.8 ppm | 0.3 |
| Ammonium (NH ₄) | <= 3 ppm | < 1 |
| Trace Impurities – Arsenic (As) | <= 0.010 ppm | < 0.003 |
| Trace Impurities - Aluminum (Al) | <= 10.0 ppb | < 0.2 |
| Arsenic and Antimony (as As) | <= 5 ppb | < 3 |
| Trace Impurities – Barium (Ba) | <= 1.0 ppb | < 0.2 |
| Trace Impurities – Beryllium (Be) | <= 1.0 ppb | < 0.2 |
| Trace Impurities – Bismuth (Bi) | <= 10.0 ppb | < 1.0 |
| Trace Impurities – Boron (B) | <= 20.0 ppb | < 5.0 |
| Frace Impurities – Cadmium (Cd) | <= 1.0 ppb | < 0.3 |
| Frace Impurities – Calcium (Ca) | <= 50.0 ppb | 29.7 |
| race Impurities – Chromium (Cr) | <= 1.0 ppb | < 0.4 |
| race Impurities – Cobalt (Co) | <= 1.0 ppb | < 0.4 |
| race Impurities – Copper (Cu) | <= 1.0 ppb | < 0.1 |
| race Impurities – Gallium (Ga) | <= 1.0 ppb | < 0.2 |

Material No.: 9530-33 Batch No.: 0000275677

| Test | Specification | Result |
|--|---------------|--------------|
| Trace Impurities - Germanium (Ge) | <= 3.0 ppb | < 2.0 |
| Trace Impurities - Gold (Au) | <= 4.0 ppb | < 0.2 |
| Heavy Metals (as Pb) | <= 100 ppb | < 50 |
| Trace Impurities – Iron (Fe) | <= 15.0 ppb | <1 |
| Trace Impurities – Lead (Pb) | <= 1.0 ppb | < 0.5 |
| Trace Impurities – Lithium (Li) | <= 1.0 ppb | 0.2 |
| Trace Impurities – Magnesium (Mg) | <= 10.0 ppb | 0.4 |
| Trace Impurities – Manganese (Mn) | <= 1.0 ppb | < 0.4 |
| Trace Impurities – Mercury (Hg) | <= 0.5 ppb | 0.1 |
| Trace Impurities – Molybdenum (Mo) | <= 10.0 ppb | < 5.0 |
| Trace Impurities – Nickel (Ni) | <= 4.0 ppb | < 0.3 |
| Trace Impurities – Niobium (Nb) | <= 1.0 ppb | < 0.2 |
| Frace Impurities – Potassium (K) | <= 9.0 ppb | < 2.0 |
| Frace Impurities - Selenium (Se), For Information Only | ppb | 1.0 |
| Trace Impurities - Silicon (Si) | <= 100.0 ppb | < 10.0 |
| race Impurities – Silver (Ag) | <= 1.0 ppb | < 0.3 |
| race Impurities – Sodium (Na) | <= 100.0 ppb | < 5.0 |
| race Impurities – Strontium (Sr) | <= 1.0 ppb | < 0.2 |
| race Impurities – Tantalum (Ta) | <= 1.0 ppb | < 0.9 |
| race Impurities – Thallium (TI) | <= 5.0 ppb | < 2.0 |
| race Impurities – Tin (Sn) | <= 5.0 ppb | < 0.8 |
| race Impurities - Titanium (Ti) | <= 1.0 ppb | 0.8 |
| race Impurities – Vanadium (V) | <= 1.0 ppb | < 0.2 |
| race Impurities – Zinc (Zn) | <= 5.0 ppb | |
| race Impurities – Zirconium (Zr) | <= 1.0 ppb | 0.3 < 0.1 |

For Laboratory, Research or Manufacturing Use Product Information (not specifications): Appearance (clear, fuming liquid) Meets ACS Specifications

Country of Origin:

US

Packaging Site:

Phillipsburg Mfg Ctr & DC





CHAMPA PURIE-CHEM INDUSTRIES

ISO 9001: 2015 CERTIFIED COMPANY

Importers Exporters Manufacturers & Marketing of Fine Chemicals & Pharmaceuticals

262-263, G.I.D.C. Estate, Makarpura, Vadodara - 390 010. Phone: (F) +91-265-2633314 / 2643723
Fax : (F) +91-265-2638036
E-mail: info@cpcindia.com
Web : www.cpcindia.com

W2708 Received on 05/05/20 by AP

CERTIFICATE OF ANALYSIS

| PRODUCT | POTASSIUM PHOSPHATE N | |
|---|-------------------------------|---------------------|
| CERTIFICATE NO | : 99/2019- 20 | DATE 26-08-2019 |
| Date of receipt of sample | | Quantity : 1000 KGS |
| Batch No. /Lot No Mfg. Date : Aug-2019 | : 99/2019- 20 | |
| iving. Date . Aug-2019 | | |
| 1. Characteristic | : A White powder | |
| 2. Identification | : Positive | |
| | RESULT OBTAINED | LIMITS |
| Clearity and colour of so | lution : 10% solution is clea | ar and colourless |
| 4. Assay (on dry basis) | : 99.27% | Min.99.00% |
| 5. PH (5% solution) | : 4.4 | 4.1-4.5 |
| 6. Loss on Drying | : 0.1% | Max 0.2% |
| 7. Heavy Metals | : 0.0003% | Max.0.001% |
| 8. Iron | : 0.001% | Max 0.002% |
| 9. Sulphate | . 0.001% | Max. 0.003% |
| 10. Chloride | : 0.0005% | Max.0.001% |
| 11. Insoluble Matter | : 0.003% | Max. 0.01% |
| 12. Sodium | : 0.004% | Max. 0.005% |

The sample does comply with specification as per Above.

Analysed by J. A. PATHAK

Quality Control Department

W 2979

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

lec: 12/08/22

exp. 12/08/27

Certificate of Analysis

1,5-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

C13H14N4O

Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022

| Test | Specification | Result | |
|--|---------------------------|----------|--|
| Appearance (Color) | Conforms to Requirements | Pink | |
| Off-White to Pink, Light Purple or Tan | - | | |
| Appearance (Form) | Powder or Chunks | Powder | |
| Melting Point | 173.0 - 176.0 ℃ | 173.0 °C | |
| Infrared Spectrum | Conforms to Structure | Conforms | |
| Residue on ignition (Ash) | < 0.05 % | 0.01 % | |
| 15 minutes, 800 Degrees Celsius | _ | | |
| Solubility | Pass | Pass | |
| Sensitivity Test | Pass | Pass | |
| Meets ACS Requirements | Current ACS Specification | Conforms | |

Larry Coers, Director Quality Control Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

W3074 Rec. on 01/16/24 by IZ

Certificate of Analysis

L-Ascorbic acid - ACS reagent, ≥99%

Product Name:

Product Number: 255564

Batch Number: MKCS4627

Proped: SIAL

Brand: SIAL CAS Number: 50-81-7

MDL Number: MFCD00064328

Formula: C6H8O6

Formula Weight: 176.12 g/mol

Quality Release Date: 21 NOV 2022

Recommended Retest Date: SEP 2025

| Test | Specification | Result |
|---------------------------------------|---------------------------|-----------|
| Appearance (Color) | White | White |
| Appearance (Form) | Conforms to Requirements | Powder |
| Powder, Crystals, Crystalline Powder, | | |
| Granules and/or Chunks | | |
| Infrared Spectrum | Conforms to Structure | Conforms |
| Optical Rotation | 20.5 - 21.5 deg | 20.7 deg |
| (+); c = 10%; Water | | |
| Titration by Iodine | ≥ 99.0 % | 99.4 % |
| Residue on Ignition | ≤ 0.10 % | 0.03 % |
| Iron (Fe) | ≤ 0.001 % | < 0.001 % |
| Heavy Metals | < 0.002 % | 0.001 % |
| by ICP-OES | | |
| Recommended Retest Period | | |
| 3 Years | | |
| Meets ACS Requirements | Current ACS Specification | Conforms |

Larry Coers, Director Quality Control Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Version Number: 1 Page 1 of 1

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Manganous Sulfate Solution, 364 g/L

Lot Number: 2403J02 Product Number: 4620

Manufacture Date: MAR 15, 2024

Expiration Date: MAR 2026

| Name | CAS# | Grade |
|-------------------------------|------------|-----------------|
| Water | 7732-18-5 | ACS/ASTM/USP/EP |
| Manganous Sulfate Monohydrate | 10034-96-5 | Reagent |
| Sulfuric Acid | 7664-93-9 | ACS |

| Test | Specification | Result | |
|-----------------------------|---------------|---------|--|
| Appearance | Pink liquid | Passed | |
| Assay (by Refractive Index) | 360-368 g/L | 367 g/L | |

| Specification | Reference |
|----------------------------|-----------------|
| Manganous Sulfate Solution | ASTM (D 888 A) |
| Manganous Sulfate Solution | ASTM (D 888 A) |
| Manganous Sulfate Solution | APHA (4500-O E) |
| Manganous Sulfate Solution | APHA (4500-O F) |
| Manganous Sulfate Solution | APHA (4500-O D) |
| Manganous Sulfate Solution | АРНА (4500-О Е) |
| Manganous Sulfate Solution | APHA (4500-O F) |
| Manganous Sulfate Solution | APHA (4500-O D) |
| Manganous Sulfate Solution | АРНА (4500-О С) |
| Manganous Sulfate Solution | APHA (4500-O C) |
| Manganous Sulfate Solution | EPA (360.2) |
| Manganous Sulfate Solution | EPA (360.2) |

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 4620-32 | 1 L natural poly | 24 months |

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Version: 1.3 Lot Number: 2403J02 Product Number: 4620 Page 1 of 2



Jose Pena (03/15/2024)

Operations Manager

This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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Version: 1.3 Lot Number: 2403J02 Product Number: 4620 Page 2 of 2

1490 Lammers Pike Batesville, IN 47006 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13 Product Number: 7900

Manufacture Date: MAR 29, 2024

Expiration Date: SEP 2025

This product is specially formulated to increase its stability. A preservative is added to prevent bacterial contamination. However, all Sodium Thiosulfate solutions are subject to slow chemical deterioration and should be restandardized periodically.

| Name | CAS# | Grade |
|---------------------------------|-------------|-----------------|
| Water | 7732-18-5 | ACS/ASTM/USP/EP |
| Sodium Thiosulfate Pentahydrate | 10102-17-7 | ACS |
| Organic Preservative | Proprietary | |
| Sodium Carbonate | 497-19-8 | ACS |

| Test | Specification | Result | NIST SRM# |
|-------------------------------------|---|-------------------|-----------|
| Appearance | Colorless liquid | Passed | |
| Assay (vs. Potassium Iodate/Starch) | $0.02499 \text{-} 0.02501 \text{ N} \text{ at } 20^{\circ}\text{C}$ | 0.02501 N at 20°C | 136 |

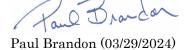
| Specification | Reference | |
|--|---------------------|--|
| Standard Sodium Thiosulfate Solution, 0.0250 N | APHA (4500-S2- F) | |
| Standard Sodium Thiosulfate Titrant | APHA (4500-O D) | |
| Standard Sodium Thiosulfate Titrant | APHA (4500-O E) | |
| Standard Sodium Thiosulfate Titrant | APHA (4500-O F) | |
| Standard Sodium Thiosulfate Titrant, 0.025 N | APHA (4500-Cl B) | |
| Standard Sodium Thiosulfate Titrant | APHA (4500-O C) | |
| Standard Sodium Thiosulfate Titrant, 0.025 M | АРНА (5530 С) | |
| Standard Sodium Thiosulfate Solution (0.025 N) | EPA (SW-846) (9031) | |
| Standard Sodium Thiosulfate solution (0.025 N) | EPA (SW-846) (9034) | |

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 7900-1 | 4 L natural poly | 18 months |
| 7900-16 | 500 mL natural poly | 18 months |
| 7900-1CT | 4 L Cubitainer® | 18 months |
| 7900-32 | 1 L natural poly | 18 months |
| | | |

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Version: 1.3 Lot Number: 4403S13 Product Number: 7900 Page 1 of 2



Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials $^{\rm --}$ Contents of Certificates and Labels."

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Version: 1.3 Lot Number: 4403S13 Product Number: 7900 Page 2 of 2

448 West Fork Dr Arlington, TX 76012 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Alkaline-Iodide-Azide, Pomeroy Formulation for Dissolved Oxygen (DO) Analysis

Lot Number: 1405D67 Product Number: 535

Manufacture Date: APR 05, 2024

Expiration Date: APR 2026

This solution is intended for use with samples with high Dissolved Oxygen content (above 15 mg/L) and for samples with high concentrations of organic material.

| Name | CAS# | Grade | |
|------------------|------------|-----------------|--|
| Water | 7732-18-5 | ACS/ASTM/USP/EP | |
| Sodium Iodide | 7681-82-5 | ACS | |
| Sodium Hydroxide | 1310-73-2 | ACS | |
| Sodium Azide | 26628-22-8 | Reagent | |

| Test | Specification | Result |
|-------------|------------------|--------|
| Appearance | Colorless liquid | Passed |
| Free Iodine | To Pass Test | Passed |

| Specification | Reference |
|---------------|-----------|
| | |

Alkaline Iodide-Sodium Azide Solution II

ASTM (D 888 A)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 535-32 | 1 L natural poly | 24 months |

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Heidi J Green (04/05/2024) Operations Manager

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Version: 1.3 Lot Number: 1405D67 Product Number: 535 Page 1 of 1



Certificate of Analysis

Quality System has been 5

1 Reagent Lane Fair Lawn, NJ 07410

201.796.7100 tel 201.796.1329 fax Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT - 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

| Catalog Number | H303 | Quality Test / Release Date | 02/23/2024 |
|-------------------|---|---|--|
| Lot Number | 235898 | | |
| Description | HEXANES - OPTIMA | | |
| Country of Origin | United States | Suggested Retest Date | Feb/2029 |
| Chemical Origin | Organic - non animal | | |
| BSE/TSE Comment | No animal products are used a processing aids, or any other n | es starting raw material ingredients, or used naterial that might migrate to the finished pr | in processing, including lubricants, roduct. |

| N/A | 5 1 1 1 - 3 Best | | |
|-----------------------------|------------------|---------------------------------|-------------------------|
| Result Name | Units | Specifications | Test Value |
| APPEARANCE | | REPORT | Clear, colorless liquid |
| ASSAY (N-HEXANE) | % | >= 60 | 73 |
| ASSAY (SUM C6 HYDROCARBONS) | % | >= 99.9 | >99.9 |
| COLOR | APHA | <= 5 | <5 |
| DENSITY AT 25 DEGREES C | GM/ML | Inclusive Between 0.653 - 0.673 | 0.670 |
| EVAPORATION RESIDUE | ppm | <= 1 | 0.3 |
| FLUORESCENCE BACKGROUND | ppb | <= 1 | <1 |
| IDENTIFICATION | PASS/FAIL | = PASS TEST | PASS TEST |
| OPTICAL ABS AT 195 NM | ABS. UNITS | <= 1 | 0.64 |
| OPTICAL ABS AT 210 NM | ABS. UNITS | <= 0.25 | 0.16 |
| OPTICAL ABS AT 220 NM | ABS. UNITS | <= 0.07 | 0.06 |
| OPTICAL ABS AT 254 NM | ABS. UNITS | <= 0.005 | 0.002 |
| PESTICIDE RESIDUE ANALYSIS | NG/L | <= 10 | <10 |
| REFRACTIVE INDEX @ 25 DEG C | | Inclusive Between 1.375 - 1.385 | 1.380 |
| SUITABILITY FOR GC/MS | | = PASS TEST | PASS TEST |
| SULFUR COMPOUNDS | % | <= 0.005 | <0.005 |
| THIOPHENE | PASS/FAIL | = PASS TEST | PASS TEST |
| NATER (H2O) | % | <= 0.01 | <0.01 |
| WATER-SOLUBLE TITRABLE ACID | MEQ/G | <= 0.0003 | 0.0001 |

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above. If there are any questions with this certificate, please call at (800) 227-6701.

^{*}Based on suggested storage condition.



01/19/2022

01/18/2025

POTASSIUM HYDROGEN PHTHALATE

Material: N983

Grade: ACS GRADE Batch Number: 24A1956910

Chemical Formula: HOOCC6H4COOK

Molecular Weight: 204.22

CAS #: 877-24-7

Appearance: Storage: Room Temperature

White crystals.

| TEST | SPECIFICATION | ANALYSIS | DISPOSITION |
|------------------------|------------------|----------|-------------|
| Assay (dried basis) | 99.95 - 100.05 % | 99.97 % | PASS |
| Chlorine Compounds | <= 0.003 % | <0.003 % | PASS |
| Heavy Metals (as Pb) | <= 5 ppm | <5 ppm | PASS |
| Insoluble Matter | <= 0.005 % | 0.003 % | PASS |
| Iron | <= 5 ppm | <5 ppm | PASS |
| pH (0.05M, Water) @25C | 4.00 - 4.02 | 4.00 | PASS |
| Sodium | <= 0.005 % | <0.005 % | PASS |
| Sulfur Compounds | <= 0.002 % | <0.002 % | PASS |

Manufacture Date:

Reassay Date:

Spec Set: N983ACS

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid

without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon

VWR Chemicals, LLC.

28600 Fountain Parkway, Solon OH 44139 USA

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



12/14/2022

12/31/2025

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40

CAS #: 1310-73-2

Appearance: Storage: Room Temperature

Pellets

| TEST | SPECIFICATION | ANALYSIS | DISPOSITION |
|--------------------|---------------|----------|-------------|
| Calcium | <= 0.005 % | <0.005 % | PASS |
| Chloride | <= 0.005 % | 0.002 % | PASS |
| Heavy Metals | <= 0.002 % | <0.002 % | PASS |
| Iron | <= 0.001 % | <0.001 % | PASS |
| Magnesium | <= 0.002 % | <0.002 % | PASS |
| Mercury | <= 0.1 ppm | <0.1 ppm | PASS |
| Nickel | <= 0.001 % | <0.001 % | PASS |
| Nitrogen Compounds | <= 0.001 % | <0.001 % | PASS |
| Phosphate | <= 0.001 % | <0.001 % | PASS |
| Potassium | <= 0.02 % | <0.02 % | PASS |
| Purity | >= 97.0 % | 99.2 % | PASS |
| Sodium Carbonate | <= 1.0 % | 0.5 % | PASS |
| Sulfate | <= 0.003 % | <0.003 % | PASS |

Manufacture Date:

Expiration Date:

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC.

28600 Fountain Parkway, Solon OH 44139 USA

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



12/14/2022

12/31/2025

Room Temperature

Manufacture Date:

Expiration Date:

Storage:

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance:

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

· fee. 7/25/24 N 3123 EXP. 9/30/27 W 3125 W3126

ENVIRONMENTAL EXPRESS Charleston, SC USA www.envexp.com (800) 343-5319

October 20, 2022

CERTIFICATE OF ANALYSIS

Environmental Express certifies that the following COD Reagent Vials have been rigorously checked against NIST Traceable standards and also compared for conformance to another major brand name product. Environmental Express COD Vial performance is evaluated using bench top spectrophotometers. Acceptance guidelines are strict and ensure dependable,

Environmental Express further certifies that the COD products listed below are recognized by the United States Environmental Protection Agency (USEPA) as equivalent to an approved Water Pollutant Testing Procedure for COD (Federal Register, Vol. 45, No. 78, Monday, April 20th, 1980, page 26811) and as such can be used for National Pollution Discharge Elimination System (NPDES) reporting.

| Cat. No. | Lot No. | Product Description |
|----------|---------|--------------------------------|
| B1010 | 13798 | COD Reagent Vials, 0 - 150 ppm |



| Item Number | ED150 | Lot Number | 2ND0156 |
|-------------------|------------------------------------|------------------|-----------|
| Item | Edetate Disodium, Dihydrate, USP | CAS Number | 6381-92-6 |
| Molecular Formula | $C_{10}H_{14}N_2Na_2O_8$ •2 H_2O | Molecular Weight | 372.24 |

| 7557 | SPECIFICATION | | DECULT. | |
|--|---|-------------|--|--|
| TEST | MIN | MAX | RESULT | |
| ASSAY (DRIED BASIS) | 99.0 | 101.0 % | 99.5 % | |
| pH OF A 5% SOLUTION @ 25°C | 4.0 | 6.0 | 4.6 | |
| LOSS ON DRYING | 8.7 | 11.4 % | 8.90 % | |
| CALCIUM (Ca) | NO PRECIPITATE IS FORMED | | NO PRECIPITATE IS FORMED | |
| ELEMENTAL IMPURITIES: | | | | |
| NICKEL (Ni) | AS REPORTED | | <0.3 ppm | |
| CHROMIUM (Cr) | AS REPORTED | | <0.3 ppm | |
| NITRILOTRIACETIC ACID[$n[(HOCOCH_2)]$ 3N] | | 0.1 % | <0.10 % | |
| IDENTIFICATION A | MATCHES REFERENCE | | MATCHES REFERENCE | |
| IDENTIFICATION B | RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION | | RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION | |
| IDENTIFICATION C | MEETS THE REQUIREMENTS FOR SODIUM | | MEETS THE REQUIREMENTS FOR SODIUM | |
| CERTIFIED HALAL | | | CERTIFIED HALAL | |
| EXPIRATION DATE | | | 10-JUL-2026 | |
| DATE OF MANUFACTURE | | | 11-JUL-2023 | |
| APPEARANCE | | | WHITE CRYSTALLINE POWDER | |
| RESIDUAL SOLVENTS | | AS REPORTED | NO RESIDUAL SOLVENTS PRESENT | |
| MONOGRAPH EDITION | | | USP 2024 | |

Certificate of Analysis Results Entered By:

CACEVEDO Charmian Acevedo 22-MAY-24 08:12:30

Spectrum Chemical Mfg Corp 755 Jersey Avenue New Brunswick 08901 NJ Certificate of Analysis Results Approved By:

GHERRERA Genaro Herrera 22-MAY-24 12:32:01

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 2407F34 Product Number: 7495.5

Manufacture Date: JUL 12, 2024

Expiration Date: JAN 2025

This solution is subject to slow decomposition upon exposure to air. Keep container tightly capped. Refrigeration may improve stability. When used in the Phenate method for Ammonia, APHA recommends replacing this solution about every 2 months.

| Name | CAS# | Grade |
|---------------------|-----------|------------|
| Water | 7732-18-5 | Commercial |
| Sodium Hypochlorite | 7681-52-9 | Commercial |

| Test | Specification | Result | NIST SRM# |
|---------------------------------------|-------------------------------------|--|-----------|
| Appearance | Colorless to greenish-yellow liquid | Passed | |
| Assay (vs. Sodium Thiosulfate/Starch) | 4.75-5.25 % (w/w) Cl ₂ | $5.05~\%~(\mathrm{w/w})~\mathrm{Cl_2}$ | 136 |

| Specification | Reference |
|-------------------------|-------------------|
| Sodium Hypochlorite, 5% | APHA (4500-NH3 F) |
| Sodium Hypochlorite | ASTM (D 4785) |

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 7495.5-1 | 4 L black poly | 6 months |
| 7495.5-16 | 500 mL amber poly | 6 months |
| 7495.5-32 | 1 L amber poly | 6 months |
| 7495.5-8 | 250 mL amber poly | 6 months |

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jose Pena (07/12/2024) Operations Manager

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Version: 1.3 Lot Number: 2407F34 Product Number: 7495.5 Page 1 of 1



An ISO 9001 Certified Company

Certificate of Analysis

This is a Component of 1486266 / LOT A4169

PRODUCT: BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227 LOT NUMBER: A4169

MANUFACTURE DATE: 06/24/2024 **DATE OF ANALYSIS:** 07/03/2024

| TEST | SPECIFICATIONS | RESULTS |
|---|------------------|-----------|
| Calcium Concentration of a diluted pillow | 0.93 to 1.29 ppm | 0.960 ppm |
| Magnesium Concentration of a diluted pillow | 0.35 to 0.48 ppm | 0.390 ppm |
| pH in a 6 L of DI water | 7.1 to 7.6 | 7.37 |
| Ammonia Concentration of a diluted pillow | 0.57 to 0.79 ppm | 0.593 ppm |
| Iron Concentration of a diluted pillow | 0.27 to 0.36 ppm | 0.311 ppm |
| Sterility | To Pass | Passed |
| Phosphorus Concentration of a diluted pillow | 7.6 to 10.3 ppm | 8.32 ppm |
| Five Day Change in Dissolved Oxygen Concentration | -0.2 to 0.2 ppm | 0.03 ppm |

The expiration date is Jun 2029

Certified by: Scottals

1490 Lammers Pike Batesville, IN 47006 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Starch Indicator, 0.5% (w/v), Mercury Free, for Iodometric Titrations

Lot Number: 4408P62 Product Number: 8000 Manufacture Date: AUG 28, 2024

Expiration Date: AUG 2026

This product is Mercury-free.

| Name | CAS# | Grade | |
|-----------------|-----------|-----------------|--|
| Water | 7732-18-5 | ACS/ASTM/USP/EP | |
| Starch, soluble | 9005-84-9 | ACS | |
| Salicylic Acid | 69-72-7 | ACS | |

| Test | Specification | Result |
|---------------------|----------------------------------|--------|
| Appearance | White translucent liquid | Passed |
| Suitability for Use | Colorless (Iodine absent) - Blue | Passed |
| | (Iodine present) | |

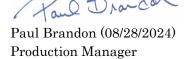
| Specification | Reference |
|---------------------------|---------------------|
| Starch Solution | APHA (4500-S2- F) |
| Starch Indicator Solution | APHA (4500-C1 B) |
| Starch Indicator | APHA (4500-SO32- B) |
| Starch indicator solution | APHA (2350 B) |
| Starch indicator solution | APHA (2350 E) |
| Starch Solution | APHA (510 B) |
| Starch Solution | APHA (5530 C) |
| Starch Indicator | APHA (4500-C1 C) |
| Starch Indicator | EPA (345.1) |

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|---------------------|---------------------------------|
| 8000-1 | 4 L natural poly | 24 months |
| 8000-16 | 500 mL natural poly | 24 months |
| 8000-32 | 1 L natural poly | 24 months |

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Version: 1.3 Lot Number: 4408P62 Product Number: 8000 Page 1 of 2



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Version: 1.3 Lot Number: 4408P62 Product Number: 8000 Page 2 of 2



BDH9260-500G

Material Description BDH POTASS HYDRGN PHTHLTE 500G

Grade ACS GRADE

 Batch
 24H0956262

 Reassay Date
 04/28/2026

 CAS Number
 877-24-7

Molecular Formula HOOCC6H4COOK

Molecular Mass 204.22

Date of Manufacture 04/29/2023

Storage Room Temperature

| Characteristics | Specifications | Measured Values | |
|------------------------|------------------|-----------------|--|
| Appearance | White crystals. | White crystals. | |
| Assay (dried basis) | 99.95 - 100.05 % | 99.98 % | |
| Chlorine Compounds | <= 0.003 % | <0.003 % | |
| Heavy Metals (as Pb) | <= 5 ppm | <5 ppm | |
| Insoluble Matter | <= 0.005 % | 0.003 % | |
| Iron | <= 5 ppm | <5 ppm | |
| pH (0.05M, Water) @25C | 4.00 - 4.02 | 4.00 | |
| Sodium | <= 0.005 % | <0.005 % | |
| Sulfur Compounds | <= 0.002 % | <0.002 % | |

Internal ID #: 322

Material

Signature Additional Information

We certify that this batch conforms to the specifications listed above.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC.

28600 Fountain Parkway, Solon OH 44139 USA

Analysis may have been rounded to significant digits in specification limits

Product meets analytical specifications of the grades listed.

VWR International LLC, Radnor Corporate Center, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA

Date Printed: 08/09/2024