

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

8900, Fax: 908 789 8922

#### **Prep Standard - Chemical Standard Summary**

| Order ID : | P3391   |
|------------|---------|
| Test :     | Mercury |

Prepbatch ID: PB164245,PB164305,

Sequence ID/Qc Batch ID: LB132994,LB133031,

| Sta | nda | rd | חו |
|-----|-----|----|----|
|     |     |    |    |

MP82340, MP82341, MP82342, MP82343, MP828147, MP82820, MP82822, MP82823, MP82825, MP82826, MP82827, MP82828, MP82829, MP82830, MP82831, MP82832, MP82833, MP82839, MP82841, MP82842, MP82843, MP82844, MP82845, MP82846, MP82846, MP82849, MP82845, MP82845, MP82846, MP82849, MP82849, MP82853, MP82849, MP82849,

#### Chemical ID:

M4371, M4397, M4916, M5062, M5882, M5884, M5953, M6037, M6040, M6041, M6090, W3112, M6090, W6090, W6090,





#### Metals STANDARD PREPARATION LOG

| Recipe<br>ID | <u>NAME</u>      | <u>NO.</u> | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Sarabjit Jaswal |
|--------------|------------------|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 3965         | 2:1 H2SO4 : HNO3 | MP82340    | 09/14/2024 | 03/30/2025         | Mohan Bera     | None           | None             | 00/45/0004                    |
|              |                  |            |            |                    |                |                |                  | 09/15/2024                    |

FROM 1600.00000ml of M6041 + 800.00000ml of M6037 = Final Quantity: 3200.000 ml

| Recipe<br>ID | NAME.                                  | <u>NO.</u> | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Sarabjit Jaswal |
|--------------|--|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 65           | POTASSIUM PERMANGANATE<br>SOLUTION 5 % | MP82341    | 09/14/2024 | 11/05/2024         | Mohan Bera     | None           | None             | 09/15/2024                    |

**FROM** 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml



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| Recipe<br>ID | NAME.                               | NO.     | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Sarabjit Jaswal |
|--------------|-------------------------------------|---------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 897          | 5%POTTASIUM PERSULFATE<br>SOLUTION. | MP82342 | 09/14/2024 | 03/30/2025         | Mohan Bera     | None           | None             | 09/15/2024                    |

FROM 100.00000ml of M4397 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

| Recipe<br>ID | NAME.                                   | <u>NO.</u> | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Sarabjit Jaswal |
|--------------|---|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 67           | SODIUM CHLORIDE -<br>HYDROXYL- CHLORIDE | MP82343    | 09/14/2024 | 11/05/2024         | Mohan Bera     | None           | None             | 09/15/2024                    |

SOLUTION 2000.0000

2000.0000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml





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| Recipe<br>ID | NAME                          | <u>NO.</u> | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u>              | <u>PipetteID</u> | Supervised By Sarabjit Jaswal |
|--------------|-------------------------------|------------|------------|--------------------|----------------|-----------------------------|------------------|-------------------------------|
| 68           | STANNOUS CHLORIDE<br>SOLUTION | MP82820    | 10/18/2024 | 10/19/2024         |                | METALS_SCA<br>LE_3 (M SC-3) |                  | 10/18/2024                    |

| Recipe<br>ID | NAME.   | <u>NO.</u> | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |
|--------------|---|------------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|
| 871          | MERCURY INTERMEDIATE B<br>250PPB WORKING STD. | MP82822    | 10/18/2024 | 10/19/2024         | Mohan Bera     |                | METALS_PIP<br>ETTE_5 (HG |                               |

FROM 1.00000ml of M6090 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml



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| Recipe<br>ID | NAME            | NO.     | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |
|--------------|-----------------|---------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|
| 1340         | Hg 0.00 PPB STD | MP82823 | 10/18/2024 | 10/19/2024         | Mohan Bera     |                | METALS_PIP<br>ETTE_5 (HG |                               |
|              |                 |         |            |                    |                |                | A)                       |                               |

**FROM** 2.50000ml of M6090 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

| Recipe<br>ID | NAME           | <u>NO.</u> | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipettelD</u>         | Supervised By Sarabjit Jaswal |
|--------------|----------------|------------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|
| 1341         | Hg 0.2 PPB STD | MP82825    | 10/18/2024 | 10/19/2024         | Mohan Bera     | None           | METALS_PIP<br>ETTE_5 (HG | •                             |

FROM 2.50000ml of M6090 + 247.30000ml of W3112 + 0.20000ml of MP82822 = Final Quantity: 250.000 ml





Metals STANDARD PREPARATION LOG

| Recipe<br>ID | NAME_          | NO.     | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipettelD</u>         | Supervised By Sarabjit Jaswal |
|--------------|----------------|---------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|
| 1342         | Hg 2.5 PPB STD | MP82826 | 10/18/2024 | 10/19/2024         | Mohan Bera     |                | METALS_PIP<br>ETTE_5 (HG |                               |

FROM 2.50000ml of M6090 + 245.00000ml of W3112 + 2.50000ml of MP82822 = Final Quantity: 250.000 ml

| 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> | Sarabjit Jaswal |
| 1343      | Hg 5.0 PPB STD | MP82827    | 10/18/2024 | 10/19/2024  | Mohan Bera |                | METALS_PIP       |                 |
|           |                |            |            |             |            |                | ETTE_5 (HG       | 10/18/2024      |

FROM 2.50000ml of M6090 + 242.50000ml of W3112 + 5.00000ml of MP82822 = Final Quantity: 250.000 ml





Metals STANDARD PREPARATION LOG

| Recipe<br>ID | NAME.          | NO.     | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipettelD</u>         | Supervised By Sarabjit Jaswal |  |
|--------------|----------------|---------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|--|
| 1344         | Hg 7.5 PPB STD | MP82828 | 10/18/2024 | 10/19/2024         | Mohan Bera     | None           | METALS_PIP<br>ETTE_5 (HG |                               |  |
|              | A)             |         |            |                    |                |                |                          |                               |  |

| FROM | 2.50000ml of M6090 - | + 240.00000ml of W3112 - | 7.50000ml of MP82822 | = Final Quantity: 250.000 ml |
|------|----------------------|--------------------------|----------------------|------------------------------|
|      |                      |                          |                      |                              |

| Recipe<br>ID | NAME            | <u>NO.</u> | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |
|--------------|-----------------|------------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|
| 1345         | Hg 10.0 PPB STD | MP82829    | 10/18/2024 | 10/19/2024         | Mohan Bera     |                | METALS_PIP<br>ETTE_5 (HG | •                             |

FROM 2.50000ml of M6090 + 237.50000ml of W3112 + 10.00000ml of MP82822 = Final Quantity: 250.000 ml



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|--------------|-----------------|---------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|--|--|
| 1346         | Hg ICV SOLUTION | MP82830 | 10/18/2024 | 10/19/2024         | Mohan Bera     |                | METALS_PIP<br>ETTE_5 (HG |                               |  |  |
|              | A)              |         |            |                    |                |                |                          |                               |  |  |

**FROM** 2.50000ml of M5953 + 2.50000ml of M6090 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

| Recipe<br>ID | NAME                       | <u>NO.</u> | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |
|--------------|----------------------------|------------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|
| 1351         | ICB (Hg 0.00 PPB SOLUTION) | MP82831    | 10/18/2024 | 10/19/2024         | Mohan Bera     |                | METALS_PIP<br>ETTE_5 (HG | •                             |

**FROM** 2.50000ml of M6090 + 247.50000ml of W3112 = Final Quantity: 250.000 ml



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#### **Metals STANDARD PREPARATION LOG**

| Recipe<br>ID | NAME_                     | NO.     | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |  |  |
|--------------|---------------------------|---------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|--|--|
| 1358         | CCV (Hg 5.0 PPB SOLUTION) | MP82832 | 10/18/2024 | 10/19/2024         | Mohan Bera     | None           | METALS_PIP<br>ETTE_5 (HG |                               |  |  |
|              | A)                        |         |            |                    |                |                |                          |                               |  |  |

| Recipe<br>ID | NAME | <u>NO.</u> | Prep Date  | Expiration<br>Date | Prepared<br>By | ScaleID | <u>PipetteID</u>         | Supervised By |
|--------------|------|------------|------------|--------------------|----------------|---------|--------------------------|---------------|
|              |      |            | 10/18/2024 | 10/19/2024         | Mohan Bera     | None    | METALS_PIP<br>ETTE_5 (HG |               |

**FROM** 495.00000ml of W3112 + 5.00000ml of M6090 = Final Quantity: 500.000 ml



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#### Metals STANDARD PREPARATION LOG

| Recipe<br>ID | NAME_   | NO.     | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |  |  |
|--------------|---|---------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|--|--|
| 871          | MERCURY INTERMEDIATE B<br>250PPB WORKING STD. | MP82838 | 10/21/2024 | 10/22/2024         | Mohan Bera     |                | METALS_PIP<br>ETTE_5 (HG |                               |  |  |
|              | A)  |         |            |                    |                |                |                          |                               |  |  |

FROM 11.00000ml of M6090 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

| 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> | Sarabjit Jaswal |
| 1340      | Hg 0.00 PPB STD | MP82839    | 10/21/2024 | 10/22/2024  | Mohan Bera |                | METALS_PIP       |                 |
|           |                 |            |            |             |            |                | ETTE_5 (HG       | 10/21/2024      |

**FROM** 2.50000ml of M6090 + 247.50000ml of W3112 = Final Quantity: 250.000 ml





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#### Metals STANDARD PREPARATION LOG

| Recipe<br>ID | NAME_          | NO.     | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |  |  |
|--------------|----------------|---------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|--|--|
| 1341         | Hg 0.2 PPB STD | MP82841 | 10/21/2024 | 10/22/2024         | Mohan Bera     |                | METALS_PIP<br>ETTE_5 (HG |                               |  |  |
|              | A)             |         |            |                    |                |                |                          |                               |  |  |

**FROM** 2.50000ml of M6090 + 247.30000ml of W3112 + 0.20000ml of MP82838 = Final Quantity: 250.000 ml

| Recipe<br>ID | NAME           | <u>NO.</u> | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |
|--------------|----------------|------------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|
| 1342         | Hg 2.5 PPB STD | MP82842    | 10/21/2024 | 10/22/2024         | Mohan Bera     |                | METALS_PIP<br>ETTE_5 (HG | ,                             |

 $2.50000 ml \ of \ M6090 + 245.0000 ml \ of \ W3112 + 2.50000 ml \ of \ MP82838 \ = Final \ Quantity: \ 250.000 \ ml$ **FROM** 





**Metals STANDARD PREPARATION LOG** 

| Recipe<br>ID | NAME                             | NO.        | Prep Date  | Expiration<br>Date | Prepared<br>By    | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |
|--------------|----------------------------------|------------|------------|--------------------|-------------------|----------------|--------------------------|-------------------------------|
| 1343         | Hg 5.0 PPB STD                   | MP82843    | 10/21/2024 | 10/22/2024         | Mohan Bera        | None           | METALS_PIP<br>ETTE_5 (HG |                               |
|              | 2 50000ml of MC000 + 242 50000ml | -£\M2440 + | E 00000    | MD00000 - F        | inal Ovantitus 20 | -0.000!        | A)                       |                               |

| FROM | 2.50000ml of M6090 + 242.50000ml of W3112 - | + 5.00000ml of MP82838 | = Final Quantity: 250.000 ml |
|------|---|------------------------|------------------------------|
|------|---|------------------------|------------------------------|

| Recipe<br>ID | NAME           | <u>NO.</u> | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |
|--------------|----------------|------------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|
| 1344         | Hg 7.5 PPB STD | MP82844    | 10/21/2024 | 10/22/2024         | Mohan Bera     |                | METALS_PIP<br>ETTE_5 (HG | ,                             |

**FROM** 2.50000ml of M6090 + 240.00000ml of W3112 + 7.50000ml of MP82838 = Final Quantity: 250.000 ml





#### **Metals STANDARD PREPARATION LOG**

| Recipe<br>ID | NAME            | NO.     | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |
|--------------|-----------------|---------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|
| 1345         | Hg 10.0 PPB STD | MP82845 | 10/21/2024 | 10/22/2024         | Mohan Bera     |                | METALS_PIP<br>ETTE_5 (HG |                               |
|              |                 |         |            |                    |                |                | A)                       |                               |

FROM 2.50000ml of M6090 + 237.50000ml of W3112 + 10.00000ml of MP82838 = Final Quantity: 250.000 ml

| 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> | Sarabjit Jaswal |
| 1346      | Hg ICV SOLUTION | MP82846    | 10/21/2024 | 10/22/2024  | Mohan Bera |                | METALS_PIP       |                 |
|           |                 |            |            |             |            |                | ETTE_5 (HG       | 10/21/2024      |

FROM 2.50000ml of M5953 + 2.50000ml of M6090 + 245.00000ml of W3112 = Final Quantity: 250.000 ml



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#### Metals STANDARD PREPARATION LOG

| <u>F</u> | <u>lD</u> | <u>NAME</u>               | NO.     | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |
|----------|-----------|---------------------------|---------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|
|          | 1358      | CCV (Hg 5.0 PPB SOLUTION) | MP82848 | 10/21/2024 | 10/22/2024         | Mohan Bera     | None           | METALS_PIP<br>ETTE_5 (HG |                               |
| Г        |           |                           |         |            |                    |                |                | A)                       |                               |

**FROM** 485.00000ml of W3112 + 5.00000ml of M6090 + 10.00000ml of MP82838 = Final Quantity: 500.000 ml

| Recipe<br>ID | NAME                       | <u>NO.</u> | Prep Date  | Expiration<br>Date | Prepared<br>By | <u>ScaleID</u> | <u>PipetteID</u>         | Supervised By Sarabjit Jaswal |
|--------------|----------------------------|------------|------------|--------------------|----------------|----------------|--------------------------|-------------------------------|
| 1352         | CCB (Hg 0.00 PPB SOLUTION) | MP82849    | 10/21/2024 | 10/22/2024         | Mohan Bera     |                | METALS_PIP<br>ETTE_5 (HG | •                             |

**FROM** 495.00000ml of W3112 + 5.00000ml of M6090 = Final Quantity: 500.000 ml



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### **Metals STANDARD PREPARATION LOG**

| Recipe<br>ID<br>68 | NAME STANNOUS CHLORIDE            | NO.<br>MP82853 | Prep Date<br>10/21/2024 | Expiration Date 10/22/2024 | Prepared By  Mohan Bera | ScaleID  METALS_SCA | PipetteID<br>None | Supervised By Sarabjit Jaswal |
|--------------------|-----------------------------------|----------------|-------------------------|----------------------------|-------------------------|---------------------|-------------------|-------------------------------|
|                    | SOLUTION                          |                |                         |                            |                         | LE_3 (M SC-3)       |                   | 10/21/2024                    |
| FROM               | 450.00000ml of W3112 + 50.00000gr | ram of M588    | 32 + 50.00000           | ml of M6040 =              | Final Quantity          | 500.000 ml          |                   |                               |

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6040 = Final Quantity: 500.000 ml



## **CHEMICAL RECEIPT LOG BOOK**

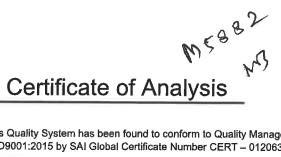
| Supplier              | ItemCode / ItemName  | Lot #       | Expiration<br>Date | Date Opened /<br>Opened By | Received Date /<br>Received By | Chemtech<br>Lot # |
|-----------------------|--|-------------|--------------------|----------------------------|--------------------------------|-------------------|
| Seidler Chemical      | BA-2196-01 /<br>Hydroxylamine<br>Hydrochloride, Crystal<br>(cs/4x500g) | 0000215387  | 06/25/2025         | 07/01/2019 /<br>RICHARD    | 06/07/2019 /<br>RICHARD        | M4371             |
| Supplier              | ItemCode / ItemName  | Lot #       | Expiration<br>Date | Date Opened /<br>Opened By | Received Date /<br>Received By | Chemtech<br>Lot # |
| Seidler Chemical      | BA-3238-05 / Potassium<br>Persulfate (2.5kg)                           | 0000227540  | 09/24/2025         | 08/16/2019 /<br>RICHARD    | 07/17/2019 /<br>RICHARD        | M4397             |
| Supplier              | ItemCode / ItemName  | Lot #       | Expiration<br>Date | Date Opened /<br>Opened By | Received Date /<br>Received By | Chemtech<br>Lot # |
| Seidler Chemical      | BA-3227-05 / Potassium<br>Permanganate (2.5kg)                         | 210800      | 03/31/2026         | 11/30/2022 /<br>mohan      | 07/28/2021 /<br>mohan          | M4916             |
| Supplier              | ItemCode / ItemName  | Lot #       | Expiration<br>Date | Date Opened /<br>Opened By | Received Date /<br>Received By | Chemtech<br>Lot # |
| Inorganic<br>Ventures | MSHG-10PPM /<br>MERCURY HCI 125mL<br>10ug/mL                           | S2-HG709270 | 09/22/2026         | 05/28/2022 /<br>mohan      | 01/27/2022 /<br>mohan          | M5062             |
| Supplier              | ItemCode / ItemName  | Lot #       | Expiration<br>Date | Date Opened /<br>Opened By | Received Date /<br>Received By | Chemtech<br>Lot # |
| Seidler Chemical      | BA-3980-01 / Stannous<br>Chloride (cs/4x500g)                          | 232820      | 08/31/2028         | 04/30/2024 /<br>mohan      | 04/25/2024 /<br>mohan          | M5882             |
| Supplier              | ItemCode / ItemName  | Lot #       | Expiration<br>Date | Date Opened /<br>Opened By | Received Date /<br>Received By | Chemtech<br>Lot # |
| Seidler Chemical      | BA-3624-05 / Sodium<br>Chloride, Crystal<br>(cs/4x2.5kg)               | 0000281938  | 07/06/2026         | 04/30/2024 /<br>mohan      | 04/25/2024 /<br>mohan          | M5884             |



### **CHEMICAL RECEIPT LOG BOOK**

| Supplier            | ItemCode / ItemName   | Lot #               | Expiration<br>Date          | Date Opened /<br>Opened By | Received Date /<br>Received By                   | Chemtech<br>Lot #     |
|---------------------|---|---------------------|-----------------------------|----------------------------|--|-----------------------|
| EPA                 | ICV-5 / ICV (HG)STOCK<br>SOLN   | ICV5-0415           | 01/01/2025                  | 07/01/2024 /<br>mohan      | 03/30/2023 /<br>mohan                            | M5953                 |
| Supplier            | ItemCode / ItemName   | Lot #               | Expiration<br>Date          | Date Opened /<br>Opened By | Received Date /<br>Received By                   | Chemtech<br>Lot #     |
| Seidler Chemical    | BA-9598-34 / Nitric Acid,<br>Instra-Analyzed (cs/4x2.5L)                    | 24D1062002          | 02/02/2025                  | 08/24/2024 /<br>Janvi      | 08/01/2024 /<br>Janvi                            | M6037                 |
| Supplier            | ItemCode / ItemName   | Lot #               | Expiration<br>Date          | Date Opened /<br>Opened By | Received Date /<br>Received By                   | Chemtech<br>Lot #     |
| Seidler Chemical    | BA-9530-33 / Hydrochloric<br>Acid, Instra-Analyzed<br>(cs/6x2.5L)           | 24D1562005          | 02/08/2025                  | 08/09/2024 /               | 08/01/2024 /<br>Janvi                            | M6040                 |
| Supplier            | ItemCode / ItemName   | Lot #               | Expiration<br>Date          | Date Opened /<br>Opened By | Received Date /<br>Received By                   | Chemtech<br>Lot #     |
| Seidler Chemical    |   |                     |                             |                            |  |                       |
| Sciulci Oriettiicai | BA-9673-33 / Sulfuric Acid,<br>Instra-Analyzed (cs/6c2.5L)                  | 23D2462010          | 03/20/2028                  | 08/16/2024 /<br>mohan      | 08/16/2024 /<br>mohan                            | M6041                 |
| Supplier            | 1   | 23D2462010<br>Lot # | 03/20/2028  Expiration Date |                            |  | M6041  Chemtech Lot # |
|                     | Instra-Analyzed (cs/6c2.5L)   |                     | Expiration                  | mohan  Date Opened /       | mohan  Received Date /                           | Chemtech              |
| Supplier            | Instra-Analyzed (cs/6c2.5L)  ItemCode / ItemName  BA-9598-34 / Nitric Acid, | Lot #               | Expiration<br>Date          | Date Opened / Opened By    | mohan  Received Date / Received By  09/10/2024 / | Chemtech<br>Lot #     |





1 Reagent Lane Fair Lawn, NJ 07410 201,796,7100 tel

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 201,796,1329 fax

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    | T142  | Quality Test / Release Date  | 08/17/2023                                  |
|-------------------|---|--|---|
| Lot Number        | 232820  |  |   |
| Description       | STANNOUS CHLORIDE, DIHYDR   | ATE CERTIFIED ACS (Suitable for Me   | rcury Determination)                        |
| Country of Origin | United States   | Suggested Retest Date  | Aug/2028                                    |
| Chemical Origin   | Inorganic-non animal  |  |   |
| BSE/TSE Comment   | No animal products are used as sta<br>processing aids, or any other mater | arting raw material ingredients, or used<br>rial that might migrate to the finished pr | in processing, including lubricants, oduct. |

| N/A               | H. M. C. S. C. |                            | Was I was a state of |
|-------------------|----------------|----------------------------|----------------------|
| Result Name       | Units          | Specifications             | Test Value           |
| APPEARANCE        |                | REPORT                     | Clear crystals       |
| ASSAY             | %              | Inclusive Between 98 - 103 | 100.65               |
| CALCIUM           | %              | <= 0.005                   | 0.0017               |
| IDENTIFICATION    | PASS/FAIL      | = PASS TEST                | PASS TEST            |
| IRON (Fe)         | %              | <= 0.003                   | 0.0011               |
| LEAD (Pb)         | %              | <= 0.01                    | 0.0006               |
| MERCURY (Hg)      | ppm            | <= 0.05                    | <0.05                |
| POTASSIUM (K)     | %              | <= 0.005                   | 0.0001               |
| SODIUM (Na)       | %              | <= 0.01                    | <0.01                |
| SOLUBILITY IN HCL | PASS/FAIL      | = PASS TEST                | PASS TEST            |
| SULFATE (SO4)     | PASS/FAIL      | = P.T. (ABOUT 0.003%)      | P.T. (ABOUT 0.003%)  |

Harout Sahagian - Quality Control Supervisor - Fair Lawn

M4371

Hydroxylamine Hydrochloride, Crystal BAKER ANALYZED® A.C.S. Reagent

Suitable for Mercury Determination (hydroxylammonium chloride)

Rec - 06.07.12





Material No.: 2196-01

Batch No.: 0000215387

Manufactured Date: 2018/06/27 Retest Date: 2025/06/25

Revision No: 1

## Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

| Test  | Specification | Result  |
|---|---------------|---------|
| Assay (NH2OH·HCl) (by KMnO4 titrn)            | >= 96.0 %     | 99.1    |
| Clarity of Alcohol Solution                   | Passes Test   | PT      |
| Residue after Ignition                        | <= 0.050 %    | 0.017   |
| Titrable Free Acid (meq/g)                    | <= 0.25       | 0.19    |
| Ammonium (NH4)                                | Passes Test   | PT      |
| Sulfur Compounds (as SO <sub>4</sub> )        | <= 0.005 %    | < 0.003 |
| Trace Impurities - ACS - Heavy Metals (as Pb) | <= 5 ppm      | 4       |
| Trace Impurities - Iron (Fe)                  | <= 5 ppm      | < 3     |
| Trace Impurities - Mercury (Hg)               | <= 0.050 ppm  | < 0.005 |

For Laboratory, Research or Manufacturing Use

Country of Origin:

CN

Packaging Site:

Paris Mfg Ctr & DC



Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

Jamie Ethier
Vice President Global Quality

Potassium Permanganate BAKER ANALYZED® A.C.S. Reagent

Suitable for Mercury Determination





M4397

Supplied - 07.17.19 Opened - 08.16.12 exp- 08.24.25

Material No.: 3227-05 Batch No.: 0000227540

Manufactured Date: 2018/09/26 Retest Date: 2025/09/24

Revision No: 1

## Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

| Test                                | Specification | Result |
|-------------------------------------|---------------|--------|
| ACS Assay (KMnO <sub>4</sub> )      | >= 99.0 %     | 99.0   |
| ACS - Insoluble Matter              | <= 0.2 %      | < 0.1  |
| ACS - Chloride and Chlorate (as CI) | <= 0.005 %    | 0.005  |
| ACS - Sulfate (SO <sub>4</sub> )    | <= 0.02 %     | 0.02   |
| Trace Impurities – Mercury (Hg)     | <= 0.050 ppm  | 0.004  |
| rrace impurities – Mercury (Hg)     | <= 0.030 ppm  | 0.004  |

For Laboratory, Research or Manufacturing Use

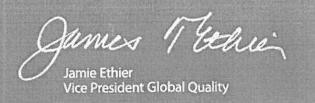
Country of Origin:

US

Packaging Site:

Paris Mfg Ctr & DC

08.16.19





M4913- 16



## 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

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    | P279                           | Quality Test / Release Date | 01/12/2021 |
|-------------------|--------------------------------|-----------------------------|------------|
| Lot Number        | 210306                         |                             |            |
| Description       | POTASSIUM PERMANGANATE, A.C.S. |                             |            |
| Country of Origin | United States                  | Suggested Retest Date       | Jan/2026   |

| N/A                 |           |                |                                      |
|---------------------|-----------|----------------|--------------------------------------|
| Result Name         | Units     | Specifications | Test Value                           |
| APPEARANCE          |           | REPORT         | Dark purple to purple green crystals |
| ASSAY               | %         | >= 99          | 99.3                                 |
| CHLORIDE & CHLORATE | %         | <= 0.005       | <0.005                               |
| IDENTIFICATION      | PASS/FAIL | = PASS TEST    | pass test                            |
| INSOLUBLE MATTER    | %         | <= 0.2         | <0.2                                 |
| MERCURY (Hg)        | ppm       | <= 0.05        | <0.004                               |
| SULFATE (SO4)       | %         | <= 0.02        | <0.02                                |

Julian Burton

Julian Burton - Quality Control Manager - Fair Lawn



# Certificate of Analysis

300 Technology Drive Christiansburg, VA 24073 USA inorganicventures.com M5062 M5063

P: 800-669-6799/540-585-3030 F: 540-585-3012 info@inorganicventures.com

#### 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



#### 2.0 PRODUCT DESCRIPTION

Product Code:

Single Analyte Mass Spec Solution

Catalog Number:

MSHG-10PPM

Lot Number:

S2-HG709270

Matrix:

10% (v/v) HCI

Value / Analyte(s):

10 μg/mL ea:

Mercury

Starting Material:

Hg metal

Starting Material Lot#:

1959

Starting Material Purity:

99.9994%

#### 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 

 $10.001 \pm 0.053 \,\mu g/mL$ 

Density:

1.020 g/mL (measured at 20 ± 4 °C)

#### **Assay Information:**

| ANALYTE | METHOD     | NIST SRM# | SRM LOT#     |
|---------|------------|-----------|--------------|
| Hg      | ICP Assay  | 3133      | 160921       |
| Hg      | EDTA       | 928       | 928          |
| Ha      | Calculated |           | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### Characterization of CRM/RM by Two or More Methods

Certified Value, X<sub>CRM/RM</sub>, where two or more methods of characterization are used is the weighted mean of the results:

 $X_{CRM/RM} = \Sigma(w_i) (X_i)$ 

 $\mathbf{X_i}$  = mean of Assay Method i with standard uncertainty  $\mathbf{u_{char}}$  i

w<sub>i</sub> = the weighting factors for each method calculated using the inverse square of

the variance.

 $\mathbf{w_i} = (1/u_{chari})^2 / (\Sigma (1/(u_{chari})^2)$ 

CRM/RM Expanded Uncertainty (±) =  $U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{its}^2 + u_{ts}^2)^{1/2}$ 

k = coverage factor = 2

 $u_{char} = [\Sigma((w_i)^2 (u_{char})^2)]^{\frac{1}{2}}$  where  $u_{char}$  i are the errors from each characterization method

u<sub>bb</sub> = bottle to bottle homogeneity standard uncertainty

ults = long term stability standard uncertainty (storage)

uts = transport stability standard uncertainty

#### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

X<sub>CRM/RM</sub> = (X<sub>a</sub>) (u<sub>char a</sub>)

Xa = mean of Assay Method A with

uchar a = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = U<sub>CRM/RM</sub> = k (u<sup>2</sup>char a + u<sup>2</sup>bb + u<sup>2</sup>lts + u<sup>2</sup>ts) 1/2

k = coverage factor = 2

u<sub>char a</sub> = the errors from characterization

ubb = bottle to bottle homogeneity standard uncertainty

u<sub>lts</sub> = long term stability standard uncertainty (storage)

uts = transport stability standard uncertainty

#### 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

#### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

#### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

#### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

#### 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

```
O Ag
          0.000011 M Eu <
                            0.000201 O Na
                                              0.000004 M Se <
                                                               0.015915 O Zn <
                                                                                 0.001510
0
   Al
          0.000001 O Fe
                            0.000001 M Nb <
                                              0.000201 O Si
                                                                0.000005 M Zr <
                                                                                 0.000201
M
   As <
          0.000402 M Ga <
                            0.000201 M Nd <
                                              0.000201 M Sm <
                                                               0.000201
M
   Au <
          0.003631 M Gd <
                            0.000201 M Ni <
                                              0.000402 M
                                                        Sn <
                                                               0.001007
M
   B <
          0.001208 M
                    Ge <
                            0.000201 M Os <
                                              0.000605 M
                                                        Sr <
                                                               0.000201
M Ba <
          0.000201 M Hf <
                            0.000201 O P <
                                              0.032370 M
                                                        Ta <
                                                               0.000201
M
  Be <
          0.000201 s
                                   M Pb <
                    Hq <
                                              0.000201 M Tb <
                                                               0.000201
M Bi <
          0.000201 M
                    Ho <
                            0.000201 M Pd <
                                              0.000403 M
                                                        Te <
                                                               0.002216
0
  Ca
          0.000007 M In <
                            0.000201 M Pr <
                                              0.000201 M Th <
                                                               0.000201
M
  Cd <
          0.000201 M Ir
                            0.000201 M
                                      Pt <
                                              0.000402 M Ti <
                                                               0.000402
                                              0.000201 O TI <
M
  Ce <
          0.000201 O K
                            0.000020 M
                                      Rb <
                                                               0.016508
  Co <
M
          0.000201 M La <
                            0.000201 M
                                      Re <
                                              0.000201 M Tm <
                                                               0.000201
  Cr <
0
          0.003021 O Li <
                            0.000107 M
                                      Rh <
                                              0.000201 M U <
                                                               0.008058
M
  Cs <
          0.001208 M Lu <
                            0.000201 M Ru <
                                              0.000201 M V <
                                                               0.000201
M
  Cu <
          0.000402 O
                    Mg
                            0.000001 O
                                      S <
                                             0.053950 M W <
                                                               0.000604
M Dy <
          0.000201 M Mn <
                            0.000604 M Sb <
                                             0.001208 M Y <
                                                               0.000201
M Er <
          0.000201 M Mo
                           0.000009 M Sc <
                                             0.000201 M Yb <
                                                               0.000201
```

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

#### 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

#### 7.1 Storage and Handling Recommendations

- Store between approximately 4° 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between  $4^{\circ}$   $24^{\circ}$  C to minimize the effects of transpiration. Use at  $20^{\circ} \pm 4^{\circ}$  C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.
- For more information, visit www.inorganicventures.com/TCT

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 200.59 +2 4 Hg(OH)(aq) 1+ **Chemical Compatibility -** Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

**Stability -** 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

**Hg Containing Samples (Preparation and Solution) -** Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line     | Estimated D.L.     | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|---|
| ICP-MS 202 amu     | 9 ppt              | n/a   | 186W16O                                     |
| ICP-OES 184.950 nm | 0.03 / 0.005 μg/mL | 1     |   |
| ICP-OES 194.227 nm | 0.03 / 0.005 µg/mL | 1     | V   |
| ICP-OES 253.652 nm | 0.1 / 0.03 µg/mL   | 1     | Ta, Co, Th, Rh, Fe,                         |
|                    |                    |       | U   |

#### 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

#### 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

#### 10.0 QUALITY STANDARD DOCUMENTATION

#### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

#### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

#### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

#### 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

#### 11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

#### 11.2 Lot Expiration Date

- September 22, 2026
- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

#### 11.3 Period of Validity

| Sealed TCT | Bag | Open Date: |  |  |
|------------|-----|------------|--|--|
|            |     |            |  |  |

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Mya Truong

#### Certificate Approved By:

Michael Booth Director, Quality Control Michael 2 Booth

#### Certifying Officer:

Paul Gaines Chairman / Senior Technical Director Paul R Laines

Sodium Chloride, Crystal BAKER ANALYZED® A.C.S. Reagent







Material No.: 3624-01

Batch No.: 0000281938

Manufactured Date: 2021-06-07

Retest Date: 2026-06-07

Revision No.: 1

# Certificate of Analysis

| Test                                       | Specification | Result      |
|--|---------------|-------------|
| Assay (NaCl) (by Ag titrn)                 | ≥ 99.0 %      | 100.0 %     |
| pH of 5% Solution at 25°C                  | 5.0 - 9.0     | 6.3         |
| Insoluble Matter                           | ≤ 0.005 %     | 0.003 %     |
| lodide (I)                                 | ≤ 0.002 %     | < 0.002 %   |
| Bromide (Br)                               | ≤ 0.01 %      | < 0.01 %    |
| Chlorate and Nitrate (as NO <sub>3</sub> ) | ≤ 0.003 %     | < 0.001 %   |
| ACS - Phosphate (PO <sub>4</sub> )         | ≤ 5 ppm       | < 5 ppm     |
| Sulfate (SO <sub>4</sub> )                 | ≤ 0.004 %     | < 0.004 %   |
| Barium (Ba)                                | Passes Test   | Passes Test |
| ACS - Heavy Metals (as Pb)                 | ≤ 5 ppm       | < 5 ppm     |
| ron (Fe)                                   | ≤ 2 ppm       | < 1 ppm     |
| Calcium (Ca)                               | ≤ 0.002 %     | < 0.001 %   |
| Magnesium (Mg)                             | ≤ 0.001 %     | < 0.001 %   |
| Potassium (K)                              | ≤ 0.005 %     | 0.001 %     |

For Laboratory, Research, or Manufacturing Use Meets Reagent Specifications for testing USP/NF monographs Country of Origin: USA

Packaging Site: Paris Mfg Ctr & DC





## QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY "An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: Inorganic ICV Solutions

### QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION:

For use with the CLP SFAM01.0 SOW and revisions.

**CAUTION:** 

Read instructions carefully before opening bottle(s) and proceeding with

the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions HAZARDOUS MATERIAL

> Safety Data Sheets Available Upon Request

#### (A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.

### (B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided

> QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY **APTIM Federal Services, LLC** 2700 Chandler Avenue - Building C Las Vegas, NV 89120

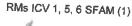
#### (C) ANALYSIS OF SAMPLES

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014

For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric

Page 1 of 2









## QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY "An ISO 9001:2015 Certified Program"

# Instructions for QATS Reference Material: Inorganic ICV Solutions

ICV1-1014

For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415

For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> and 5% (v/v) nitric acid.

ICV6-0400

For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from K₃Fe(CN)₅, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

# (D) CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

|         | ICV1-1014                                     |                         |
|---------|---|-------------------------|
| Element | Concentration (µg/L) (after 10-fold dilution) | Concentration (µg/L)    |
| Al      | 2500  | (after 50-fold dilution |
| Sb      | 1000  | 500                     |
| As      | 1000  | 200                     |
| Ba      | 520   | 200                     |
| Be      | 510   | 100                     |
| Cd      | 510   | 100                     |
| Ca      | 10000   | 100                     |
| Cr      | 520   | 2000                    |
| Co      | 520   | 100                     |
| Cu      | 510   | 100                     |
| Fe      | 10000   | 100                     |
| Pb      | 1000  | 2000                    |
| Mg      | 6000  | 200                     |
| Mn      |   | 1200                    |
| Ni      | 520   | 100                     |
| K       | 530   | 110                     |
| Se      | 9900  | 2000                    |
| Ag      | 1000  | 200                     |
| Na      | 250   | 50                      |
| TI      | 10000   | 2000                    |
| V       | 1000  | 210                     |
| Zn      | 500   | 100                     |
|         | 1000  | 200                     |

|         | ICV5-0415                                      |         | ICV6-0400                                     |
|---------|--|---------|---|
| Element | Concentration (µg/L) (after 100-fold dilution) | Analyte | Concentration (µg/L) (after 100-fold dilution |
| Hg      | 4.0  | CN-     | 99  |

Nitric Acid 69%

Rew. 1 — 08/0/12025 Pare 1 — 16034, M6034 m6035, M6038, m6036, Certificate of Analysis





Material No.: 9606-03 Batch No.: 24D1062002

Manufactured Date: 2024-03-26 Retest Date: 2029-03-25

Revision No.: 0

| Test                              | Specification | Result      |
|-----------------------------------|---------------|-------------|
| Assay (HNO3)                      | 69.0 - 70.0 % | 69.7 %      |
| Appearance                        | Passes Test   | Passes Test |
| Color (APHA)                      | ≤ 10          | 5           |
| Residue after Ignition            | ≤ 2 ppm       | 1 ppm       |
| Chloride (CI)                     | ≤ 0.08 ppm    | < 0.03 ppm  |
| Phosphate (PO4)                   | ≤ 0.10 ppm    | < 0.03 ppm  |
| Sulfate (SO <sub>4</sub> )        | ≤ 0.2 ppm     | < 0.2 ppm   |
| Trace Impurities - Aluminum (AI)  | ≤ 40.0 ppb    | < 1.0 ppb   |
| Arsenic and Antimony (as As)      | ≤ 5.0 ppb     | < 2.0 ppb   |
| Trace Impurities – Barium (Ba)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities ~ Beryllium (Be) | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Bismuth (Bi)   | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities - Boron (B)      | ≤ 10.0 ppb    | < 5.0 ppb   |
| Trace Impurities - Cadmium (Cd)   | ≤ 50 ppb      | < 1 ppb     |
| Trace Impurities - Calcium (Ca)   | ≤ 50.0 ppb    | 2.3 ppb     |
| Trace Impurities - Chromium (Cr)  | ≤ 30.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Cobalt (Co)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Copper (Cu)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Gallium (Ga)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Germanium (Ge) | ≤ 20 ppb      | < 10 ppb    |
| Trace Impurities - Gold (Au)      | ≤ 20 ppb      | < 5 ppb     |
| Heavy Metals (as Pb)              | ≤ 100 ppb     | 100 ppb     |
| Trace Impurities – Iron (Fe)      | ≤ 40.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Lead (Pb)      | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Lithium (Li)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Magnesium (Mg) | ≤ 20 ppb      | < 1 ppb     |
| Trace Impurities – Manganese (Мп) | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Nickel (Ni)    | ≤ 20.0 ppb    | < 5.0 ppb   |

>>> Continued on page 2 >>>





Material No.: 9606-03 Batch No.: 24D1062002

| Test                                | Specification | Result     |
|-------------------------------------|---------------|------------|
| Trace Impurities – Niobium (Nb)     | ≤ 50.0 ppb    | < 1.0 ppb  |
| Trace Impurities - Potassium (K)    | ≤ 50 ppb      | 16 ppb     |
| Trace Impurities - Silicon (Si)     | ≤ 50 ppb      | < 10 ppb   |
| Trace Impurities – Silver (Ag)      | ≤ 20.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Sodium (Na)      | ≤ 150.0 ppb   | < 5.0 ppb  |
| Trace Impurities - Strontium (Sr)   | ≤ 30.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Tantalum (Ta)    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities - Thallium (TI)    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities - Tin (Sn)         | ≤ 20.0 ppb    | < 10.0 ppb |
| Trace Impurities - Titanium (Ti)    | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities - Vanadium (V)     | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities - Zinc (Zn)        | ≤ 20.0 ppb    | < 1.0 ppb  |
| Trace Impurities - Zirconium (Zr)   | ≤ 10.0 ppb    | < 1.0 ppb  |
| Particle Count - 0.5 µm and greater | ≤ 60 par/ml   | 10 par/ml  |
| Particle Count - 1.0 µm and greater | ≤ 10 par/ml   | 3 par/ml   |

Nitric Acid 69% CMOS





Material No.: 9606-03 Batch No.: 24D1062002

Test Specification Result

For Microelectronic Use

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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





paper m6039 Certificate of Analysis m6040

Material No.: 9530-33 Batch No.: 24D1562005 Manufactured Date: 2024-03-18 Retest Date: 2029-03-17

Revision No.: 0

| Test                                      | Specification | Result      |
|---|---------------|-------------|
| ACS – Assay (as HCI) (by acid-base titrn) | 36.5 - 38.0 % | 37.6 %      |
| ACS – Color (APHA)                        | ≤ 10          | 5           |
| ACS – Residue after Ignition              | ≤ 3 ppm       | < 1 ppm     |
| ACS - Specific Gravity at 60°/60°F        | 1.185 - 1.192 | 1.192       |
| ACS – Bromide (Br)                        | ≤ 0.005 %     | < 0.005 %   |
| ACS - Extractable Organic Substances      | ≤ 5 ppm       | < 1 ppm     |
| ACS Free Chlorine (as Cl2)                | ≤ 0.5 ppm     | < 0.5 ppm   |
| Phosphate (PO <sub>4</sub> )              | ≤ 0.05 ppm    | 0.03 ppm    |
| Sulfate (SO <sub>4</sub> )                | ≤ 0.5 ppm     | < 0.3 ppm   |
| Sulfite (SO <sub>3</sub> )                | ≤ 0.8 ppm     | 0.3 ppm     |
| Ammonium (NH <sub>4</sub> )               | ≤ 3 ppm       | < 1 ppm     |
| Trace Impurities - Arsenic (As)           | ≤ 0.010 ppm   | < 0.003 ppm |
| Trace Impurities – Aluminum (AI)          | ≤ 10.0 ppb    | < 5.0 ppb   |
| Arsenic and Antimony (as As)              | ≤ 5.0 ppb     | < 3.0 ppb   |
| Trace Impurities – Barium (Ba)            | ≤ 1.0 ppb     | < 1.0 ppb   |
| Trace Impurities – Beryllium (Be)         | ≤ 1.0 ppb     | < 1.0 ppb   |
| Trace Impurities - Bismuth (Bi)           | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities - Boron (B)              | ≤ 20.0 ppb    | 2.2 ppb     |
| Trace Impurities - Cadmium (Cd)           | ≤ 1.0 ppb     | < 1.0 ppb   |
| Trace Impurities - Calcium (Ca)           | ≤ 50.0 ppb    | 31.0 ppb    |
| Trace Impurities - Chromium (Cr)          | ≤ 1.0 ppb     | 0.5 ppb     |
| Trace Impurities - Cobalt (Co)            | ≤ 1.0 ppb     | 0.2 ppb     |
| Trace Impurities - Copper (Cu)            | ≤ 1.0 ppb     | < 0.1 ppb   |
| Trace Impurities - Gallium (Ga)           | ≤ 1.0 ppb     | < 0.2 ppb   |
| Trace Impurities - Germanium (Ge)         | ≤ 3.0 ppb     | < 2.0 ppb   |
| Trace Impurities - Gold (Au)              | ≤ 4.0 ppb     | < 0.2 ppb   |
| Heavy Metals (as Pb)                      | ≤ 100 ppb     | < 50 ppb    |
| Trace Impurities - Iron (Fe)              | ≤ 15 ppb      | 3 ppb       |

>>> Continued on page 2 >>>





Material No.: 9530-33 Batch No.: 24D1562005

| Test   | Specification    | Result     |
|--|------------------|------------|
| Trace Impurities - Lead (Pb)                           | ≤ 1.0 ppb        | < 0.2 ppb  |
| Trace Impurities - Lithium (Li)                        | ≤ 1.0 ppb        | < 0.1 ppb  |
| Trace Impurities - Magnesium (Mg)                      | ≤ 10.0 ppb       | 2.2 ppb    |
| Trace Impurities - Manganese (Mn)                      | ≤ 1.0 ppb        | < 0.2 ppb  |
| Trace Impurities - Mercury (Hg)                        | ≤ 0.5 ppb        | < 0.1 ppb  |
| Trace Impurities - Molybdenum (Mo)                     | ≤ 10.0 ppb       | < 5.0 ppb  |
| Trace Impurities – Nickel (Ni)                         | ≤ <b>4.0</b> ppb | 0.2 ppb    |
| Trace Impurities – Niobium (Nb)                        | ≤ 1.0 ppb        | < 0.2 ppb  |
| Trace Impurities – Potassium (K)                       | ≤ 9.0 ppb        | < 1.0 ppb  |
| Trace Impurities – Selenium (Se), For Information Only |                  | < 1.0 ppb  |
| Trace Impurities – Silicon (Si)                        | ≤ 100.0 ppb      | < 10.0 ppb |
| Trace Impurities – Silver (Ag)                         | ≤ 1.0 ppb        | < 0.3 ppb  |
| Trace Impurities – Sodium (Na)                         | ≤ 100.0 ppb      | 2.0 ppb    |
| Trace Impurities - Strontium (Sr)                      | ≤ 1.0 ppb        | < 0.2 ppb  |
| Frace Impurities – Tantalum (Ta)                       | ≤ 1.0 ppb        | < 0.9 ppb  |
| Frace Impurities – Thallium (TI)                       | ≤ 5.0 ppb        | < 2.0 ppb  |
| Frace Impurities – Tin (Sn)                            | ≤ 5.0 ppb        | < 0.4 ppb  |
| Frace Impurities – Titanium (Ti)                       | ≤ 1.0 ppb        | 0.2 ppb    |
| race Impurities – Vanadium (V)                         | ≤ 1.0 ppb        | < 0.2 ppb  |
| race Impurities – Zinc (Zn)                            | ≤ 5.0 ppb        | < 0.2 ppb  |
| race Impurities – Zirconium (Zr)                       | ≤ 1.0 ppb        | < 0.1 ppb  |

Hydrochloric Acid, 36.5-38.0%

BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis





Material No.: 9530-33 Batch No.: 24D1562005

Test Specification Result

For Laboratory,Research,or Manufacturing Use Product Information (not specifications): Appearance (clear, fuming liquid) Meets ACS Specifications Storage Condition: Store below 25 °C.

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC



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 (H2SO4)                             | 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 <sub>4</sub> )                     | ≤ 1 ppm       | 1 ppm       |
| Chloride (CI)                                   | ≤ 0.1 ppm     | < 0.1 ppm   |
| Nitrate (NO <sub>3</sub> )                      | ≤ 0.2 ppm     | < 0.1 ppm   |
| Phosphate (PO <sub>4</sub> )                    | ≤ 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







R: 9/10/24

Material No.: 9606-03 Batch No.: 24D1062002

Manufactured Date: 2024-03-26

Retest Date: 2029-03-25 Revision No.: 0

## Certificate of Analysis

| M6088, M6089, M6090, M6091, M6092, M6093 |               |             |
|--|---------------|-------------|
| Test                                     | Specification | Result      |
| Assay (HNO <sub>3</sub> )                | 69.0 - 70.0 % | 69.7 %      |
| Appearance                               | Passes Test   | Passes Test |
| Color (APHA)                             | ≤ 10          | 5           |
| Residue after Ignition                   | ≤ 2 ppm       | 1 ppm       |
| Chloride (CI)                            | ≤ 0.08 ppm    | < 0.03 ppm  |
| Phosphate (PO <sub>4</sub> )             | ≤ 0.10 ppm    | < 0.03 ppm  |
| Sulfate (SO <sub>4</sub> )               | ≤ 0.2 ppm     | < 0.2 ppm   |
| Trace Impurities - Aluminum (AI)         | ≤ 40.0 ppb    | < 1.0 ppb   |
| Arsenic and Antimony (as As)             | ≤ 5.0 ppb     | < 2.0 ppb   |
| Trace Impurities - Barium (Ba)           | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Beryllium (Be)        | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Bismuth (Bi)          | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Boron (B)             | ≤ 10.0 ppb    | < 5.0 ppb   |
| Trace Impurities - Cadmium (Cd)          | ≤ 50 ppb      | < 1 ppb     |
| Trace Impurities - Calcium (Ca)          | ≤ 50.0 ppb    | 2.3 ppb     |
| Trace Impurities - Chromium (Cr)         | ≤ 30.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Cobalt (Co)           | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Copper (Cu)           | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Gallium (Ga)          | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Germanium (Ge)        | ≤ 20 ppb      | < 10 ppb    |
| Trace Impurities - Gold (Au)             | ≤ 20 ppb      | < 5 ppb     |
| Heavy Metals (as Pb)                     | ≤ 100 ppb     | 100 ppb     |
| Trace Impurities - Iron (Fe)             | ≤ 40.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Lead (Pb)             | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities - Lithium (Li)          | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Magnesium (Mg)        | ≤ 20 ppb      | < 1 ppb     |
| Trace Impurities - Manganese (Mn)        | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Nickel (Ni)           | ≤ 20.0 ppb    | < 5.0 ppb   |





Material No.: 9606-03 Batch No.: 24D1062002

| Test                                | Specification | Result     |
|-------------------------------------|---------------|------------|
| Trace Impurities - Niobium (Nb)     | ≤ 50.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Potassium (K)    | ≤ 50 ppb      | 16 ppb     |
| Trace Impurities - Silicon (Si)     | ≤ 50 ppb      | < 10 ppb   |
| Trace Impurities - Silver (Ag)      | ≤ 20.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Sodium (Na)      | ≤ 150.0 ppb   | < 5.0 ppb  |
| Trace Impurities - Strontium (Sr)   | ≤ 30.0 ppb    | < 1.0 ppb  |
| Trace Impurities ~ Tantalum (Ta)    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities - Thallium (TI)    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities - Tin (Sn)         | ≤ 20.0 ppb    | < 10.0 ppb |
| Trace Impurities - Titanium (Ti)    | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities - Vanadium (V)     | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities - Zinc (Zn)        | ≤ 20.0 ppb    | < 1.0 ppb  |
| Trace Impurities - Zirconium (Zr)   | ≤ 10.0 ppb    | < 1.0 ppb  |
| Particle Count - 0.5 µm and greater | ≤ 60 par/ml   | 10 par/ml  |
| Particle Count - 1.0 µm and greater | ≤ 10 par/ml   | 3 par/ml   |
|                                     |               |            |

Nitric Acid 69% CMOS





Material No.: 9606-03 Batch No.: 24D1062002

Specification Test Result

For Microelectronic Use

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

Jamie Croak Director Quality Operations, Bioscience Production