

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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

| Order | ID : | Q2150 |
|-------|------|-------|
| | | |

Test: Pesticide-TCL

Prepbatch ID: PB168209,

Sequence ID/Qc Batch ID: pl053025,

Standard ID:

EP2613,EP2614,PP24095,PP24255,PP24256,PP24257,PP24258,PP24259,PP24260,PP24261,PP24262,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284,PP24285,PP24329,PP24433,PP24597,

Chemical ID:

E2865,E3551,E3847,E3876,E3877,E3914,E3927,E3932,E3933,E3938,P12603,P12611,P13037,P13040,P13195,P1324 5,P13356,P13357,P13405,P13785,P13861,P9052,W3177,



Aliance

Fax: 908 789 8922

Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Riteshkumar Patel |
|--------------|-------------------|--------|------------|--------------------|----------------------|----------------|------------------|---------------------------------|
| 230 | 1:1ACETONE/HEXANE | EP2613 | 05/09/2025 | 11/05/2025 | RUPESHKUMA R SHAH | None | None | 0.7 (0.0 (0.0 0.7 |
| | | | | | K SHAH | | | 05/09/2025 |

| Recipe ID | NAME. | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Riteshkumar Patel |
|--------------|----------------------|------------|------------|--------------------|----------------|----------------|------------------|---------------------------------|
| 3923 | Baked Sodium Sulfate | EP2614 | 05/19/2025 | 07/01/2025 | | Extraction_SC | None | |
| | | | | | R SHAH | ALE_2 | | 05/19/2025 |

FROM 4000.0000gram of E3551 = Final Quantity: 4000.000 gram





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|---|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 4027 | Pesticide resolution Check Mixture 8081 | PP24095 | 12/23/2024 | 06/16/2025 | Abdul Mirza | None | None | 12/30/2024 |

| Recipe ID | NAME. | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|------------------------------------|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 84 | Pest/PCB Surrogate Stock 20 PPM | PP24255 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

FROM 1.00000ml of P13785 + 9.00000ml of E3877 = Final Quantity: 10.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|---|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 3629 | 20 PPM PEST stock Solution 1st source(RESTEK) | PP24256 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

| FROM | 1.00000ml of P13040 + 9.00000ml of E3877 = Final Quantity: 10.000 ml |
|------|--|
|------|--|

| Recipe ID | NAME. | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|--|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 1472 | 20 PPM Pest Stock Solution 2nd Source | PP24257 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

FROM 1.00000ml of P13037 + 9.00000ml of E3877 = Final Quantity: 10.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | <u>Prepared</u> <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|-------------------------------------|------------|------------|--------------------|------------------------------|----------------|------------------|-------------------------------|
| 1 | 20 PPM Mirex Stock (Primary Source) | PP24258 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

| Recipe ID | NAME. | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|--|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 3663 | 20 PPM MIREX Stock STD (Secondary source) | PP24259 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

FROM 0.20000ml of P13195 + 9.80000ml of E3877 = Final Quantity: 10.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| 3630 | | ecipe ID | <u>NAME</u> | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|------|---|-------------|-------------|---------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| | 3 | 630 | | PP24260 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

FROM 98.50000ml of E3877 + 0.50000ml of PP24255 + 0.50000ml of PP24256 + 0.50000ml of PP24258 = Final Quantity: 100.000 ml

| Recipe ID | <u>NAME</u> | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|--|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 80 | 100/100 PPB Pesticide Working Solution 2nd Source | PP24261 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

FROM 98.50000ml of E3877 + 0.50000ml of PP24255 + 0.50000ml of PP24257 + 0.50000ml of PP24259 = Final Quantity: 100.000 ml



Aliance TECHNICAL GROUP

Fax: 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID N | <u>NAME</u> | <u>NO.</u> | Prep Date | Expiration Date | <u>Prepared</u> <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|----------------|-------------------------------------|----------------|------------|--------------------|------------------------------|----------------|------------------|-------------------------------|
| | 1000/100 PPB Chlordane STD (Restek) | <u>PP24262</u> | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

| Recipe ID | <u>NAME</u> | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|---|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 3746 | 1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE | PP24266 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

FROM 0.10000ml of P12611 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml



Aliance
TECHNICAL GROUP

Fax: 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | <u>Prepared</u> <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|-------------------------------------|------------|------------|--------------------|------------------------------|----------------|------------------|-------------------------------|
| 383 | 1000/100 PPB Toxaphene STD (Restek) | PP24267 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

| FROM | 0.10000ml of P13405 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml |
|------|---|
|------|---|

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|---|---------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 3669 | 1000/100 PPB TOXAPHENE STD 2nd source (RESTEK) | PP24268 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

FROM 0.10000ml of P13861 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| ID N | IAME | <u>NO.</u> | Prep Date | Expiration Date | <u>Prepared</u> <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|------|---------------------------------|----------------|------------|--------------------|------------------------------|----------------|------------------|-------------------------------|
| | '5 PPB ICAL PEST STD(RESTEK) | <u>PP24269</u> | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

| FROM | 0.75000ml of E3877 + 0.25000ml of PP24260 = Final Qua | ntity: 1.000 | ml |
|-------------|---|--------------|----|
|-------------|---|--------------|----|

| Recipe ID | <u>NAME</u> | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|---------------------------------|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 3632 | 50 PPB ICAL PEST STD(RESTEK) | PP24270 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

FROM 0.50000ml of E3877 + 0.50000ml of PP24260 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|---------------------------------|---------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 3633 | 25 PPB ICAL PEST STD(RESTEK) | PP24271 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |
| | | | | | | | | |

| FROM | 0.75000ml of E3877 + 0.25000ml of PP24260 = Final Quantity: 1.000 | 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> | Ankita Jodhani |
| 3634 | 5 PPB ICAL PEST STD(RESTEK) | <u>PP24272</u> | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

FROM 0.90000ml of E3877 + 0.10000ml of PP24270 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|-----------------------------|---------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 3988 | 50 PPB PEST ICV STD(RESTEK) | PP24273 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |
| | I | 1 | <u> </u> | | | | | |

| 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> | Ankita Jodhani |
| 528 | CHLOR 750 PPB STD | <u>PP24274</u> | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

FROM 0.25000ml of E3877 + 0.75000ml of PP24262 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|-------------------|----------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 529 | CHLOR 500 PPB STD | PP24275 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |
| | | <u> </u> | <u> </u> | | | | | |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|------------------|------------------------|----------------|-----------------------------|---------------------------|--------------------------|------------------------|-------------------|----------------|
| <u>ID</u> 530 | NAME CHLOR 250 PPB STD | NO. PP24277 | Prep Date 03/11/2025 | <u>Date</u> 08/12/2025 | <u>By</u> Abdul Mirza | <u>ScaleID</u> None | PipetteID None | Ankita Jodhani |
| | | | | | | | | 03/12/2025 |

FROM 0.75000ml of E3877 + 0.25000ml of PP24262 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | <u>NAME</u> | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|------------------|---------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 3408 | CHLOR 50 PPB STD | PP24278 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 02/42/2025 |
| | | | | | | | | 03/12/2025 |

| FROM | 0.90000ml of E3877 + 0.10000ml of PP24275 = Final Quantity: 1.000 m |
|-------------|---|
|-------------|---|

| 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> | Ankita Jodhani |
| 532 | CHLOR 500 PPB ICV STD | PP24279 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | |
| | | | | | | | | 03/12/2025 |

FROM 0.50000ml of E3877 + 0.50000ml of PP24266 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|-----------------|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 533 | TOX 750 PPB STD | PP24280 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |
| | | | | | | | | 03/12/2023 |

| 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> | Ankita Jodhani |
| 534 | TOX 500 PPB STD | PP24281 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | |
| | | | | | | | | 03/12/2025 |

FROM 0.50000ml of E3877 + 0.50000ml of PP24267 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|-----------------|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 535 | TOX 250 PPB STD | PP24282 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 02/42/2025 |
| | | | | | | | | 03/12/2025 |

| FROM 0.7 | 75000ml of E3877 + 0.25000ml of PP24267 | = Final Quantity: 1.000 ml |
|----------|---|----------------------------|
|----------|---|----------------------------|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|-----------------|------------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 2217 | TOX 100 PPB STD | PP24283 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |

FROM 0.90000ml of E3877 + 0.10000ml of PP24267 = Final Quantity: 1.000 ml



Aliance
TECHNICAL GROUP

Fax: 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Ankita Jodhani |
|--------------|-------------------------------|---------|------------|--------------------|----------------|----------------|------------------|-------------------------------|
| 3670 | TOX 500 PPB ICV std (RESTEK) | PP24284 | 03/11/2025 | 08/12/2025 | Abdul Mirza | None | None | 03/12/2025 |
| | | 1 | <u> </u> | | | | | |

| FROM | 0.50000ml of E3877 + 0.50000ml of PP24268 = Final Quantity: 1.000 m |
|-------------|---|
|-------------|---|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|--------------|----------------------------------|------------|------------|--------------------|----------------|---------|-----------|----------------|
| 79 | 500 PPB Pesticide Spike Solution | | 03/12/2025 | 08/12/2025 | Abdul Mirza | None | None | Ankita Jodhani |
| | | | | | | | | 03/12/2025 |

FROM 95.00000ml of E3876 + 2.50000ml of PP24257 + 2.50000ml of PP24259 = Final Quantity: 100.000 ml





Pest/Pcb 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 Abdul Mirza |
|--------------|------------------------------------|------------|------------|--------------------|----------------|----------------|------------------|---------------------------|
| 84 | Pest/PCB Surrogate Stock 20 PPM | PP24329 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

| FROM | 1.00000ml of P13356 + 9.00000ml of W3177 = Final Quantity | 10.000 | ml |
|------|---|--------|----|
|------|---|--------|----|

| 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> | Yogesh Patel |
| 518 | Pest/PCB I.BLK 20 PPB | PP24433 | 03/31/2025 | 08/22/2025 | Abdul Mirza | None | None | _ |
| | | | | | | | | 04/02/2025 |

FROM 99.90000ml of E3914 + 0.10000ml of PP24329 = Final Quantity: 100.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID 465 | NAME 200 PPB Pest/PCB Surrogate Spike | NO. PP24597 | Prep Date 05/20/2025 | Expiration Date 11/05/2025 | Prepared By Abdul Mirza | <u>ScaleID</u> None | PipetteID None | Supervised By Yogesh Patel 05/22/2025 |
|---------------------|---------------------------------------|----------------|-------------------------|----------------------------|-------------------------------|------------------------|-------------------|---------------------------------------|
| FROM | 1.00000ml of P13357 + 999.00000m | of E3932 : | = Final Quanti | ty: 1000.000 n | nl | | | |



| ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--|--|---------------------|----------------------------|--|--|
| BA-3382-05 / Sand, Purified (cs/4x2.5kg) | 0000243821 | 06/30/2025 | 04/30/2020 / RAJESH | 04/28/2020 / RAJESH | E2865 |
| ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 07/01/2025 | 01/03/2024 / Rajesh | 07/20/2023 / Rajesh | E3551 |
| ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 24G1962003 | 06/16/2025 | 12/16/2024 / Rajesh | 12/13/2024 / Rajesh | E3847 |
| ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H2762008 | 08/25/2025 | 02/25/2025 / | 02/12/2025 / Rajesh | E3876 |
| ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 243570 | 08/12/2025 | 02/12/2025 / Rajesh | 02/12/2025 / Rajesh | E3877 |
| ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | | Chemtech Lot # |
| BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 243570 | 09/19/2025 | 03/19/2025 / RUPESH | 03/13/2025 / RUPESH | E3914 |
| | ItemCode / ItemName PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 ItemCode / ItemName BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) ItemCode / ItemName BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) ItemCode / ItemName BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | ItemCode / ItemName | | RAJESH R | RAJESH REceived Date / Opened By Received By OPI/20/2023 / Rajesh OPI/20/2024 / Rajesh OPI/20/2025 / OPI/20/2025 / OPI/20/2025 / OPI/20/2025 / Rajesh OPI/20/2025 / OPI/20/20 |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------------------------|--|---------------------|----------------------------------|----------------------------|---|-----------------------------|
| phenomenex | FS0006 / Cleanert SPE Silica, 1000 mg/6ml | Z0830QB1 | 04/18/2026 | 05/30/2025 / RUPESH | 03/13/2025 / RUPESH | E3927 |
| 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) | 24H1462005 | 11/05/2025 | 05/05/2025 / RUPESH | 04/23/2025 / RUPESH | E3932 |
| 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) | 25C0362005 | 11/05/2025 | 05/05/2025 / RUPESH | 04/23/2025 / RUPESH | E3933 |
| | | | | | | |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Supplier Seidler Chemical | ItemCode / ItemName BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | Lot # 25C0362005 | | - | | |
| | BA-9262-03 / Hexane, | | Date | Opened By | Received By 05/14/2025 / | Lot # |
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 25C0362005 | Date 04/30/2026 Expiration | Opened By / Date Opened / | Received By 05/14/2025 / RUPESH Received Date / | Lot # E3938 Chemtech |
| Seidler Chemical Supplier | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 25C0362005 | Date 04/30/2026 Expiration Date | Date Opened / Opened By | Received By 05/14/2025 / RUPESH Received Date / Received By 07/03/2023 / | Lot # E3938 Chemtech Lot # |



| | | | Expiration | Date Opened / | Received Date / | Chemtech |
|-----------------------------|---|----------|--------------------|----------------------------|--------------------------------|-------------------|
| Supplier | ItemCode / ItemName | Lot # | Date | Opened By | Received By | Lot # |
| Restek | 32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul | A0200423 | 09/10/2025 | 03/10/2025 / Abdul | 12/26/2023 / Abdul | P13037 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul | A0199099 | 09/10/2025 | 03/10/2025 / Abdul | 12/26/2023 / Abdul | P13040 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Absolute Standards, Inc. | 79136 / Mirex, 1000 ug/ml | 042022 | 09/10/2025 | 03/10/2025 / Abdul | 01/17/2024 / Abdul | P13195 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Absolute Standards, Inc. | 19161 / 8081 pesticide resolution check mixture | 013124 | 06/23/2025 | 12/23/2024 / Abdul | 02/09/2024 / Abdul | P13245 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL | A0206810 | 09/18/2025 | 03/18/2025 / yogesh | 04/22/2024 / Abdul | P13356 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| | | | | | | |



| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|---|------------|--------------------|----------------------------|--------------------------------|-------------------|
| Restek | 32005 / Toxaphene Standard | A0203038 | 09/09/2025 | 03/10/2025 / Abdul | 05/15/2024 / Abdul | P13405 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL | A0214495 | 09/10/2025 | 03/10/2025 / Abdul | 11/19/2024 / Ankita | P13785 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32005 / Toxaphene Standard | A0210240 | 09/10/2025 | 03/10/2025 / Abdul | 12/09/2024 / Abdul | P13861 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Absolute Standards, Inc. | 79136 / Mirex, 1000 ug/ml | 112018 | 09/10/2025 | 03/10/2025 / Abdul | 11/01/2019 / Stephen | P9052 |
| 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) | 24G1962003 | 08/22/2025 | 02/03/2025 / jignesh | 01/31/2025 / jignesh | W3177 |

Sand
Purified
Washed and Ignited





Material No.: 3382-05

Batch No.: 0000243821

Manufactured Date: 2018/04/09 Retest Date: 2025/04/07

Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|---------------------------|---------------|--------|
| Substances Soluble in HCI | <= 0.16 % | 0.01 |

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

Country of Origin:

US

Packaging Site:

Paris Mfg Ctr & DC







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

n-Hexane 95% ULTRA RESI-ANALYZED For Organic Residue Analysis





Material No.: 9262-03

Batch No.: 24G1962003

Manufactured Date: 2024-05-23 Expiration Date: 2025-08-22

Revision No.: 0

Certificate of Analysis

| Test | Specification | Donali |
|---|---------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | | Result |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 5 | 3 |
| ECD-Sensitive impurities (as Ethylene Dibromide) – Single impurity Peak (pg/mL) | ≤ 10 | 1 |
| | ≤ 5 | 1 |
| Assay (Total Saturated Collsomers) (by GC, corrected for water) | ≥ 99.5 % | 00.74 |
| Assay (as n-Hexane) (by GC, corrected for water) | ≥ 95 % | 99.7 % |
| Color (APHA) | | 98 % |
| Residue after Evaporation | ≤ 10 | 5 |
| Substances Darkened by H2SO4 | ≤ 1.0 ppm | 0.1 ppm |
| Vater (by KF, coulometric) | Passes Test | Passes Test |
| (a) (c) (c) (confoundfull) | ≤ 0.05 % | < 0.01 % |

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

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 12/13/24

Hoak

Jamie Croak
Director Quality Operations, Bioscience Production



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 – 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 | 11/07/2024 | | | |
|-------------------|----------------------|---|------------|--|--|--|
| Lot Number | 243570 | | | | | |
| Description | HEXANES - OPTIMA | | | | | |
| Country of Origin | United States | Suggested Retest Date | Nov/2029 | | | |
| Chemical Origin | Organic - non animal | | | | | |
| BSE/TSE Comment | | No animal products are used as starting raw material ingredients, or used in processing, including lubricant processing aids, or any other material that might migrate to the finished product. | | | | |

| N/A | | | | |
|-----------------------------|------------|---------------------------------|-------------------------|--|
| Result Name | Units | Specifications | Test Value | |
| APPEARANCE | | REPORT | Clear, colorless liquid | |
| ASSAY (N-HEXANE) | % | >= 60 | 69 | |
| 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 | 0.669 | |
| EVAPORATION RESIDUE | ppm | <= 1 | <1 | |
| FLUORESCENCE BACKGROUND | ppb | <= 1 | <1 | |
| IDENTIFICATION | PASS/FAIL | = PASS TEST | PASS TEST | |
| OPTICAL ABS AT 195 NM | ABS. UNITS | <= 1 | 0.74 | |
| OPTICAL ABS AT 210 NM | ABS. UNITS | <= 0.25 | 0.17 | |
| OPTICAL ABS AT 220 NM | ABS. UNITS | <= 0.07 | 0.05 | |
| OPTICAL ABS AT 254 NM | ABS. UNITS | <= 0.005 | 0.001 | |
| PESTICIDE RESIDUE ANALYSIS | NG/L | <= 10 | <10 | |
| REFRACTIVE INDEX @ 25 DEG C | | Inclusive Between 1.375 - 1.385 | 1.379 | |
| SUITABILITY FOR GC/MS | | = PASS TEST | PASS TEST | |
| SULFUR COMPOUNDS | % | <= 0.005 | <0.005 | |
| THIOPHENE | PASS/FAIL | = PASS TEST | PASS TEST | |
| WATER (H2O) | % | <= 0.01 | <0.01 | |
| WATER-SOLUBLE TITRABLE ACID | MEQ/G | <= 0.0003 | 0.0001 | |

Recarby RP S

on 2/12/25

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.



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 – 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 | 11/07/2024 |
|-------------------|---|---|--|
| Lot Number | 243570 | | - |
| Description | HEXANES - OPTIMA | | |
| Country of Origin | United States | Suggested Retest Date | Nov/2029 |
| Chemical Origin | Organic - non animal | | |
| BSE/TSE Comment | No animal products are used as a processing aids, or any other ma | starting raw material ingredients, or used terial that might migrate to the finished p | in processing, including lubricants, roduct. |

| N/A | | | |
|-----------------------------|------------|---------------------------------|-------------------------|
| Result Name | Units | Specifications | Test Value |
| APPEARANCE | | REPORT | Clear, colorless liquid |
| ASSAY (N-HEXANE) | % | >= 60 | 69 |
| 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 | 0.669 |
| EVAPORATION RESIDUE | ppm | <= 1 | <1 |
| FLUORESCENCE BACKGROUND | ppb | <= 1 | <1 |
| IDENTIFICATION | PASS/FAIL | = PASS TEST | PASS TEST |
| OPTICAL ABS AT 195 NM | ABS. UNITS | <= 1 | 0.74 |
| OPTICAL ABS AT 210 NM | ABS. UNITS | <= 0.25 | 0.17 |
| OPTICAL ABS AT 220 NM | ABS. UNITS | <= 0.07 | 0.05 |
| OPTICAL ABS AT 254 NM | ABS. UNITS | <= 0.005 | 0.001 |
| PESTICIDE RESIDUE ANALYSIS | NG/L | <= 10 | <10 |
| REFRACTIVE INDEX @ 25 DEG C | | Inclusive Between 1.375 - 1.385 | 1.379 |
| 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 |

recd by RS on 3/19/25

Keb Salym

E3914

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.

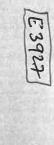
^{*}Based on suggested storage condition.



CAT# FS0006 MFG#:G01256 LOT#:Z0830QB1

eniri) di suseM

Agelo Technologies











Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|-------------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected forwater) | >= 99.4 % | 99.8 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.2 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | <= 0.3 | 0.2 |
| Titrable Base (μeq/g) | <= 0.6 | <0.1 |
| Water (H ₂ O) | <= 0.5 % | 0.2 % |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | <1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 1 |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Assessed Baukauman adamatala 110

n-Hexane 95% ULTRA RESI-ANALYZED For Organic Residue Analysis



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 6 |
| ECD-Sensitive Impurities (as EthyleneDibromide) – Single Impurity Peak (ng/mL) | <= 5 | 5 |
| Assay (Total Saturated C ₆ Isomers) (byGC, corrected for water) | >= 99.5 % | 100.0 % |
| Assay (as n-Hexane) (by GC, correctedfor water) | >= 95 % | 100 % |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0 ppm | 0.1 ppm |
| Substances Darkened by H2SO4 | Passes Test | Passes Test |
| Water (by KF, coulometric) | <= 0.05 % | <0.01 % |

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3933

n-Hexane 95% ULTRA RESI-ANALYZED For Organic Residue Analysis



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 6 |
| ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL) | <= 5 | 5 |
| Assay (Total Saturated C6 Isomers) (byGC, corrected for water) | >= 99.5 % | 100.0 % |
| Assay (as n-Hexane) (by GC, correctedfor water) | >= 95 % | 100 % |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0 ppm | 0.1 ppm |
| Substances Darkened by H2SO4 | Passes Test | Passes Test |
| Water (by KF, coulometric) | <= 0.05 % | <0.01 % |

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC





CERTIFIED REFERENCE MATERIAL









110 Benner Circle Bellefonte, PA 16823-8812 Tel: 1-814-353-1300 Fax: 1-814-353-1309

www.restek.com

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

32021

Lot No.: A0193299

Description :

Chlordane Standard

Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Expiration Date : A

April 30, 2029

Pkg Amt:

> 1 mL

Storage: 10°C or colder

Ship: Ambient

CERTIFIED VALUES

| Elution Order | Compound | 5CAS# | Lot# | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|--|---------|--------|--------|--------------------------------|--|
| 1 | Chlordane | 57-74-9 | 978545 | % | 1,010.0 μg/mL | +/- 56.0475 |
| | 10% trans-Chlordane; 9% cis-Chlordane; 81% other | | | | | |
| | isomers | | | | | |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent:

Hexane ...

CAS # 110-54

Tech Tips:

CAS #57-74-9 nomenclature is based on EPA method 8081B.

Quality Confirmation Test

Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp: 300°C

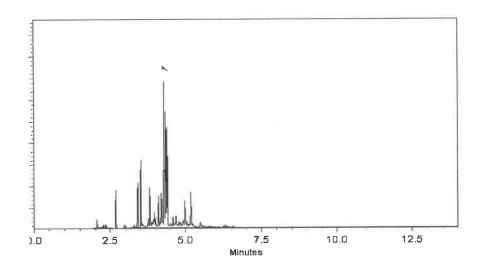
300 C

Det. Type:

ECD

Split Vert

Inj. Vol 0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bruan Snyder - Operations Tech i

Date Mixed:

06-Jan-2023

Balance Serial #

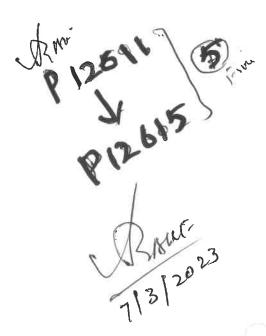
B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

09-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397





110 Benner Circle Bellefonte, PA 16823-8812

> Tel: 1-814-353-1300 Fax: 1-814-353-1309

CERTIFIED REFERENCE MATERIAL

chromatographic plus

Certificate of Analysis









www.restek.com

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

32291

Lot No.: A0199099

Description:

Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50),

1mL/ampul

Container Size : Expiration Date : 2 mL

Pkg Amt: > 1 mL

June 30, 2027

Storage: 10°C or colder

Ship: Ambient

P13039 3

RAUF 2023

CERTIFIED VALUES

| Elution Order | Compound | CAS# | Lot# | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|-------------------------------|------------|------------|--------|--------------------------------|--|
| 1 | alpha-BHC | 319-84-6 | 14434500 | 99% | 200.0 μg/mL | +/- 8.9732 |
| 2 | gamma-BHC (Lindane) | 58-89-9 | 14184400 | 98% | 200.1 μg/mL | +/- 8.9762 |
| 3 | beta-BHC | 319-85-7 | BCCC6425 | 99% | 200.3 μg/mL | +/- 8.9844 |
| 4 | delta-BHC | 319-86-8 | 14450800 | 98% | 200.0 μg/mL | +/- 8.9740 |
| 5 | Heptachlor | 76-44-8 | 813251 | 99% | 200.1 μg/mL | +/- 8.9754 |
| 6 | Aldrin | 309-00-2 | 14389400 | 98% | 200.0 μg/mL | +/- 8.9718 |
| 7 | Heptachlor epoxide (isomer B) | 1024-57-3 | 14448800 | 99% | 200.1 μg/mL | +/- 8.9754 |
| 8 | trans-Chlordane | 5103-74-2 | 32943 | 98% | 199.9 μg/mL | +/- 8.9696 |
| 9 | cis-Chlordane | 5103-71-9 | 31766 | 98% | 200.1 μg/mL | +/- 8.9762 |
| 10 | Endosulfan I | 959-98-8 | BCCF4060 | 99% | 200.1 μg/mL | +/- 8.9754 |
| 11 | 4,4'-DDE | 72-55-9 | GHYQG | 99% | 200.1 μg/mL | +/- 8.9777 |
| 12 | Dieldrin | 60-57-1 | 11129900 | 98% | 200.0 μg/mL | +/- 8.9718 |
| 13 | Endrin | 72-20-8 | 14123200 | 98% | 199.9 μg/mL | +/- 8.9696 |
| 14 | 4,4'-DDD | 72-54-8 | HAN02 | 99% | 200.1 μg/mL | +/- 8.9777 |
| 15 | Endosulfan II | 33213-65-9 | 14374700 | 99% | 200.0 μg/mL | +/- 8.9732 |
| 16 | 4,4'-DDT | 50-29-3 | 230410JLMA | 98% | 200.0 μg/mL | +/- 8.9718 |

| 17 | Endrin aldehyde | 7421-93-4 | 30720 | 98% | 200.1 μg/mL | +/- 8.9784 |
|----|--------------------|------------|------------|-----|-------------|------------|
| 18 | Endosulfan sulfate | 1031-07-8 | BCCH9010 | 99% | 200.0 μg/mL | +/- 8.9732 |
| 19 | Methoxychlor | 72-43-5 | 13668200 | 99% | 200.1 μg/mL | +/- 8.9777 |
| 20 | Endrin ketone | 53494-70-5 | 1-ABS-16-7 | 98% | 200.0 μg/mL | +/- 8.9740 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent:

Hexane/Toluene (50:50)

CAS# 110-54-3/108-88-3

Purity 99%

P13039 5

Quality Confirmation Test

Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

150°C to 300°C

@ 4°C/min. (hold 5 min.)

Inj. Temp: 200°C

200 0

Det. Temp:

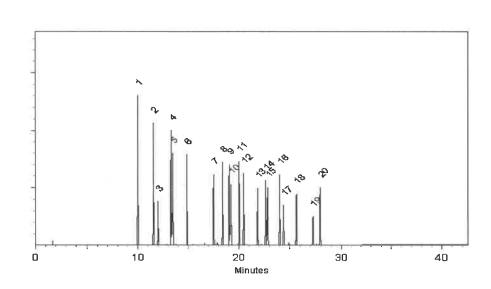
Det. Type:

Split Vent:

Split ratio 50:1

Inj. Vol

1μΙ



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

lock McClockey - Operations Technician

Date Mixed:

19-Jun-2023

Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

23-Jun-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

www.absolutestandards.com



Certified Reference Material CRM

https://Absolutestandards.com ANAB ISO 17034 Accredited AR-1539 Certificate Number

CERTIFIED WEIGHT REPORT

| | | ¥. |
|--------------|-------------|-------------|
| Description: | Lot Number: | Par Number: |
| Mirex | 042022 | 78136 |
| | Acetone | Solvent(s): |

81025

ormulated By:

Prashant Chauhan

25.50

042022

DATE

Lot#

Recommended Storage: Expiration Date: Refrigerate (4 °C) 042027

Nominal Concentration (µg/mL): 1000

5E-05 Balance Uncertainty

50.0

Weight(s) shown below were combined and diluted to (mL): 0.006 Flask Uncertainty

ĕ

Nominal

Purity

Uncertainty

Target

Actual

Actual

Uncertainty

(Solvent Safety Info. On Attached pg.)

SDS Information

Expanded

Reviewed By:

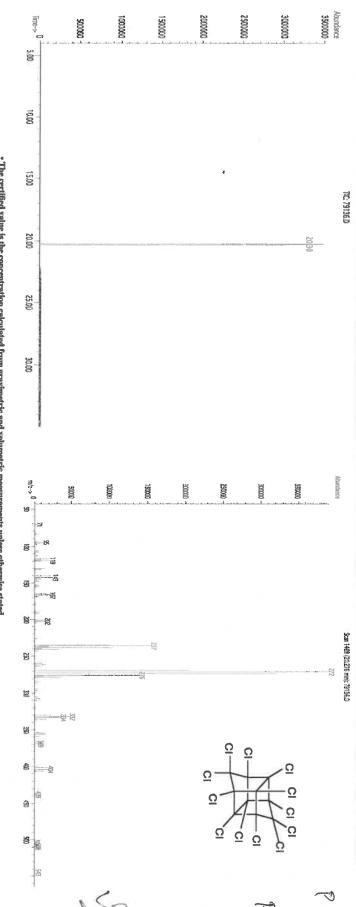
Pedro L. Rentas

042022

DATE

1. Mirex RM# 437 9492400 Conc (µg/mL) 1000 99.4 3 Purity Weight (g) 0.05034 0.05040 Weight (g) Conc(µg/mL) 1001.1 (+/-) (µg/mL 10.3 2385-85-5 CAS# OSHA PEL (TWA) orl-rat 306mg/kg

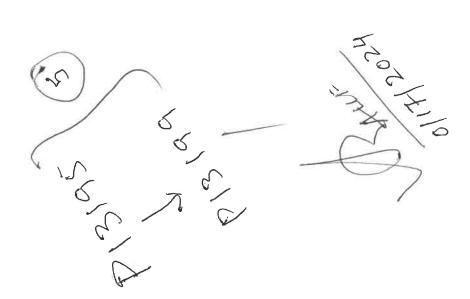
= 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren. Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.

- All Standards, after opening ampule, should be stored with cape light and under appropriate laboratory conditions.

 Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).







110 Benner Circle Bellefonte, PA 16823-8812 Tel: 1-814-353-1300 Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL









Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

32021

Lot No.: A0197993

Description:

Chlordane Standard

Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Pkg Amt:

> 1 mL

Expiration Date:

August 31, 2029

Storage:

10°C or colder

Ship:

Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS# | Lot# | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|--|---------|--------|--------|--------------------------------|--|
| 1 | Chlordane 10% trans-Chlordane; 9% cis-Chlordane; 81% other isomers | 57-74-9 | 978545 | % | 1,005.0 μg/mL | +/- 55.7700 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane

> CAS# 110-54-3 Purity 99%

Tech Tips:

CAS #57-74-9 nomenclature is based on EPA method 8081B.



Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

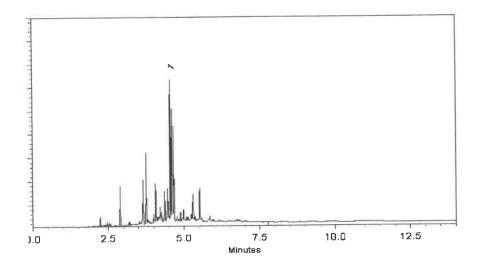
Det. Type:

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Creighead - Mix Technician

Date Mixed:

11-May-2023

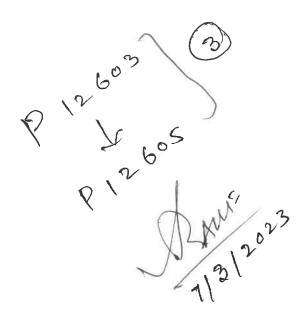
Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

16-May-2023













110 Benner Circle Bellefonte, PA 16823-8812 Tel: 1-814-353-1300 Fax: 1-814-353-1309

www.restek.com

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

32291

Lot No.: A0200423

Description:

Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50),

1mL/ampul

July 31, 2027

Container Size : Expiration Date : 2 mL

...

Pkg Amt: > 1 mL

Storage:

10°C or colder

Ship:

Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS# | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) |
|------------------|-------------------------------|------------|------------|--------|--------------------------------|--|
| 1 | alpha-BHC | 319-84-6 | 14434500 | 99% | 200.5 μg/mL | +/- 8.9956 |
| 2 | gamma-BHC (Lindane) | 58-89-9 | 14184400 | 98% | 199.9 μg/mL | +/- 8.9696 |
| 3 | beta-BHC | 319-85-7 | BCCC6425 | 99% | 200.0 μg/mL | +/- 8.9732 |
| 4 | delta-BHC | 319-86-8 | 14450800 | 98% | 199.9 μg/mL | +/- 8.9696 |
| 5 | Heptachlor | 76-44-8 | 813251 | 99% | 202.0 μg/mL | +/- 9.0629 |
| 6 | Aldrin | 309-00-2 | 14389400 | 98% | 200.9 μg/mL | +/- 9.0136 |
| 7 | Heptachlor epoxide (isomer B) | 1024-57-3 | 14448800 | 99% | 200.0 μg/mL | +/- 8.9732 |
| 8 | trans-Chlordane | 5103-74-2 | 34616 | 99% | 200.5 μg/mL | +/- 8.9956 |
| 9 | cis-Chlordane | 5103-71-9 | 31766 | 98% | 201.4 μg/mL | +/- 9.0356 |
| 10 | Endosulfan I | 959-98-8 | BCCF4060 | 99% | 200.0 μg/mL | +/- 8.9732 |
| 11 | 4,4'-DDE | 72-55-9 | GHYQG | 99% | 201.5 μg/mL | +/- 9.0405 |
| 12 | Dieldrin | 60-57-1 | 14515000 | 98% | 199.9 μg/mL | +/- 8.9696 |
| 13 | Endrin | 72-20-8 | 14485300 | 98% | 200.4 μg/mL | +/- 8.9916 |
| 14 | 4,4'-DDD | 72-54-8 | HAN02 | 99% | 200.5 μg/mL | +/- 8.9956 |
| 15 | Endosulfan II | 33213-65-9 | 14374700 | 99% | 200.0 μg/mL | +/- 8.9732 |
| 16 | 4,4'-DDT | 50-29-3 | 230410ЛLМА | 98% | 201.9 μg/mL | +/- 9.0575 |

| 17 | Endrin aldehyde | 7421-93-4 | 30720 | 98% | 201.4 μg/m | L +/- 9.0356 |
|----|--------------------|------------|----------|-----|------------|--------------|
| 18 | Endosulfan sulfate | 1031-07-8 | BCCH9010 | 99% | 200.5 μg/m | L +/- 8.9956 |
| 19 | Methoxychlor | 72-43-5 | 14563200 | 98% | 200.9 μg/m | L +/- 9.0136 |
| 20 | Endrin ketone | 53494-70-5 | 14537700 | 98% | 199.9 μg/m | L +/- 8.9696 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent:

Hexane/Toluene (50:50)

110-54-3/108-88-3

Purity

Quality Confirmation Test

Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

150°C to 300°C

@ 4°C/min. (hold 5 min.)

Inj. Temp: 200°C

Det. Temp:

300°C

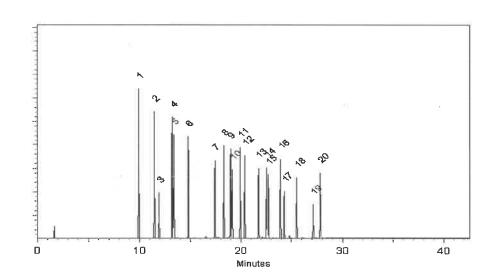
Det. Type:

Split Vent:

Split ratio 50:1

Inj. Vol

1μІ



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Soumuel Moodler m Moodler - Operations Tech I

Date Mixed:

31-Jul-2023

Balance Serial #

B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Aug-2023



800-368-1131 Absolute Standards, Inc.

www.absolutestandards.com



Certified Reference Material CRM



https://Absolutestandards.com ANAB ISO 17034 Accredited AR-1539 Certificate Number

CERTIFIED WEIGHT REPORT

| NIST Test ID#: | Nominal Concentration (µg/mL): | Recommended Storage: | Expiration Date: | | Description: | Lot Number: | Part Number: |
|---------------------------|--------------------------------|----------------------|------------------|--------------|------------------------|-------------|--------------|
| 6UTB | Varied | Refrigerate (4 °C) | 013129 | 9 components | CLP Pesticides & PCB's | 013124 | 19161 |
| 5E-05 Balance Uncertainty | | Toluene | Hexane | Solvent(s): | Resolution Check Stand | | |
| | | 28508 | 273615 | Lot | ard | | |

| DAT | Pedro L. Rentas | Reviewed By: |
|--------|-----------------|----------------|
| 013124 | les there | M |
| DAT | Lawrence Barry | Formulated By: |
| 013124 | home bry | 1 |

| | | | | | | | | Expanded | | SDS Information | |
|-------------|--------|--------------|--------|------------|---------------------|---------------|---------------------------|-------------|-----------|--|--------------|
| | Part | Lot | Dil | Initial | Initial Uncertainty | Initial | Initial Final Uncertainty | Uncertainty | | (Solvent Safety Info. On Attached pg.) | ached pg.) |
| npound | Nimber | Nismhor | Fantar | | Dinatta (m) | | | | | | |
| pound | MURUM | Number | Factor | Vol. (ml.) | Pipette (mL) | Conc.(ug/ml.) | Conc.(ug/mL) | (+/-) µg/mL | CAS# | OSHA PEL (TWA) | LD50 |
| | | | | | | | | | | | |
| s-Chlordane | 19361 | 19361 013124 | 0.010 | 1.00 | 0.004 | 101.3 | 1.0 | 0.02 | 5103-74-2 | 0.5ma/m3 (skin) | orl-rat 500n |

5E-05

Balance Uncertainty

7. 4,4'-Methoxychlor

19361 19361

013124 013124

> 0.010 0.010 0.010

0.010

1.8

0.004 0.004

1000.7 204.2 202.6

2.0 2.0

202.6

0.03 0.09

> 877-09-8 72-43-5

10mg/m3 ₹ ¥

orl-rat 6000mg/kg

NA

Š S

0.004

1,00

19361

Decachlorobiphenyl (209) 2,4,5,6-Tetrachloro-m-xylene 2. Endosulfan I

4. Dieldrin

| | | | | | | | - | | | | |
|---|-------------|----------|--------|------------|-------------------|--------------|-----------------------------|--------------|------------|--|--------------------|
| volume(s) snown below were combined and diluted to (mL): | and diluted | to (mL): | 100.0 | 0.021 | Flask Uncertainty | | 1 | | | | |
| | | | | | | | | Expanded | | SDS Information | |
| | Part | Lot | Dil | Initial | Uncertainty | Initial | Final | Uncertainty | (Solvent : | (Solvent Safety Info. On Attached pg.) | ched pg.) |
| Compound | Number | Number | Factor | Val. (ml.) | Pipette (mL) | Conc.(ug/mL) | Conc.(ug/ml.) Conc.(ug/ml.) | -(+/-) μg/mL | CAS# | OSHA PEL (TWA) | LDS0 |
| trans-Chlordane | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 101.3 | 1.0 | 0.02 | 5103-74-2 | 0.5ma/m3 (skin) | orl-rat 500mo/ko |
| Endosulfan I | 19361 | 013124 | 0.010 | .i. | 0.004 | 101.3 | 1.0 | 0.02 | 959-98-8 | 0.1mg/m3 (skin) | ori-rat 18ma/ko |
| 4,4'-DDE | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 201.6 | 2.0 | 0.03 | 72-55-9 | N/A | orl-rat 880mo/kg |
| Dieldrin | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 202.8 | 2.0 | 0.03 | 60-57-1 | 0.25mg/m3 (skin) | ori-rat 38300ug/kg |
| Endosulfan sulfate | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 204.2 | 2.0 | 0.03 | 1031-07-8 | WA | orl-rat 18mg/kg |
| Endrin ketone | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 202.6 | 2.0 | 0.03 | 53494-70-5 | N/A | NA |
| A AIRA - | | | | | | | | | | | 4 444 4 |

| ise stated. | |) |
|-------------|--------|---------|
| Atura 1024 | - 12 K | (2) (S) |
| | | |

The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise sta
 Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 Standards are certified (4/-) 0.5% of the stated value, unless otherwise stated.

All Standards, after opening ampute, should be stored with caps tight and under appropriate laboratory conditions.
 Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C., (1994).











110 Benner Circle Bellefonte, PA 16823-8812 Tel: 1-814-353-1300 Fax: 1-814-353-1309

www.restek.com

Certificate of Analysis chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed. P133401

Catalog No.:

32000

Lot No.: A0206810

Description:

Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size:

Pkg Amt:

> 1 mL

Expiration Date:

April 30, 2030

Storage:

10°C or colder

Handling:

Contains PCBs - sonicate prior to

Ship:

Ambient

use.

CERTIFIED VALUES

| Elution Order | Compound | CAS# | Lot# | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) |
|------------------|------------------------------|-----------|----------|--------|--------------------------------|--|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 877-09-8 | RP220407 | 99% | 200.3 μg/mL | +/- 11.1143 |
| 2 | Decachlorobiphenyl (BZ# 209) | 2051-24-3 | 30638 | 99% | 200.6 μg/mL | +/- 11.1298 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent:

Acetone

CAS#

67-64-1 99%

Purity

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

FCD

Split Vent:

10 ml/min.

Inj. Vol

1μl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed:

22-Jan-2024

Balance Serial #

1128360905

Gunga J Address

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

24-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

P13357
P13357
P13357
04/25/2025











110 Benner Circle Bellefonte, PA 16823-8812 Tel: 1-814-353-1300 Fax: 1-814-353-1309

www.restek.com

Certificate of Analysis chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed. P133401

Catalog No.:

32000

Lot No.: A0206810

Description:

Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size:

Pkg Amt:

> 1 mL

Expiration Date:

April 30, 2030

Storage:

10°C or colder

Handling:

Contains PCBs - sonicate prior to

Ship:

Ambient

use.

CERTIFIED VALUES

| Elution Order | Compound | CAS# | Lot# | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) |
|------------------|------------------------------|-----------|----------|--------|--------------------------------|--|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 877-09-8 | RP220407 | 99% | 200.3 μg/mL | +/- 11.1143 |
| 2 | Decachlorobiphenyl (BZ# 209) | 2051-24-3 | 30638 | 99% | 200.6 μg/mL | +/- 11.1298 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent:

Acetone

CAS#

67-64-1 99%

Purity

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

FCD

Split Vent:

10 ml/min.

Inj. Vol

1μl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed:

22-Jan-2024

Balance Serial #

1128360905

Gunga J Address

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

24-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

P13357
P13357
P13357
04/25/2025











110 Benner Circle Bellefonte, PA 16823-8812 Tel: 1-814-353-1300

Fax: 1-814-353-1309

www.restek.com

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

32005

Lot No.: A0203038

Description:

Toxaphene Standard

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

Container Size: Expiration Date: 2 mL

January 31, 2028

Pkg Amt:

> 1 mL Storage:

10°C or colder

Ship: **Ambient**

CERTIFIED VALUES

| Elution Order | Compound | CAS# | Lot# | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|-----------|-----------|---------|--------|--------------------------------|--|
| 1 | Toxaphene | 8001-35-2 | 1051817 | % | 1,009.0 μg/mL | +/- 55.9920 |

^{*} Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent:

Hexane

CAS#

110-54-3 **Purity** 99%

Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300 C

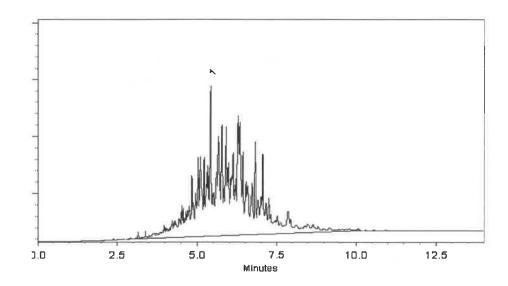
Det. Type:

ECD

Split Vent:

300 ml/min.

Inj. Vol 0.2μl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed:

10-Oct-2023

Balance Serial #

1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

16-Oct-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

P 13402 (5)
P 13406)
P 13406)
P 13406)



Bellefonte, PA 16823-8812 Fax: 1-814-353-1309 Tel: 1-814-353-1300 110 Benner Circle

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus











FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed

Lot No.: A0214495

32000 Catalog No.:

Description:

Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Pkg Amt: October 31, 2030 2 mL **Expiration Date:** Container Size:

10°C or colder Storage:

Ambient

Ship:

Contains PCBs - sonicate prior to

Handling:

68£61d

> 1 mL

42191111 584610

ш > RTIFIED

| | | | | | | 2 |
|------------------|------------------------------|-------------------|----------|--------|------------------------------------|---|
| Elution Order | Compound | CAS# | Lot# | Purity | Purity Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 877-09-8 RP220407 | RP220407 | %66 | 200.2 µg/mL +/- 11.1087 | +/- 11.1087 |
| 7 | Decachlorobiphenyl (BZ# 209) | 2051-24-3 30679 | 30679 | %66 | 201.4 µg/mL +/- 11.1753 | +/- 11.1753 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

Acetone Solvent:

67-64-1 CAS#

%66 Purity

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200μg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level , 10 minutes is a guideline only. Longer sonication time will not affect

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time. product quality.

Column: 30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program: 200°C to 300°C @ 25°C/min. (hold 10 min.)

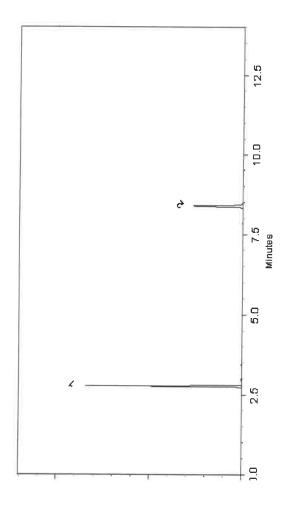
Inj. Temp:

Det. Temp: 300°C

Det. Type: ECD

Split Vent: 10 ml/min.

Inj. Vol



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

80 St

Aaron Enyart - Operations Tech |

29-Jul-2024 Date Mixed:

B345965662 Balance Serial#

01-Aug-2024 Date Passed:

Jennifer Pollino - Operations Tech III - ARM QC

Granfe & Poste.



110 Benner Circle Bellefonte, PA 16823-8812 Tel: 1-814-353-1300

www.restek.com

Fax: 1-814-353-1309

CERTIFIED REFERENCE MATERIAL









Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 32005 Lot No.: A0210240

Description: Toxaphene Standard

Container Size:

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

2 mL Pkg Amt: > 1 mL **Expiration Date:** July 31, 2028 Storage:

10°C or colder Ship: **Ambient**

CERTIFIED VALUES

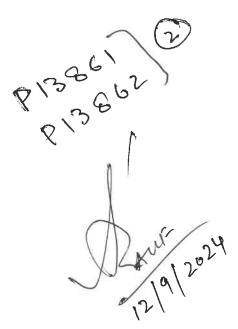
| Elution Order | Compound | CAS# | Lot# | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|-----------|-----------|---------|--------|--------------------------------|--|
| 1 | Toxaphene | 8001-35-2 | 1051817 | % | 1,009.3 μg/mL | +/- 56.0105 |

_

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane CAS#

110-54-3 Purity 99%



Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp: 300°C

300 C

Det. Type:

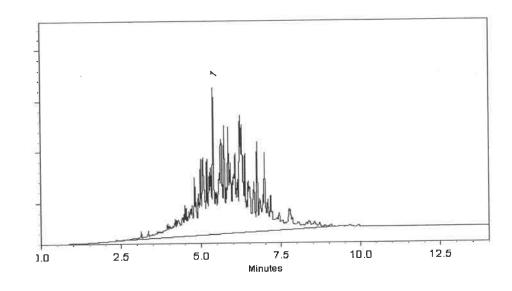
ECD

Split Vent:

300 ml/min.

inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Amanda Miller - Operations Tech III - ARM QC

Date Mixed:

11-Apr-2024

Balance Serial #

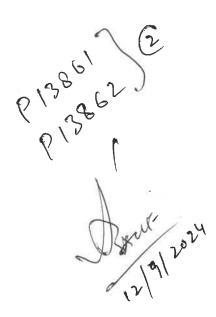
B442140311

Mist talk

Christie Mills - Operations Lead Tech - ARM QC

Date Passed:

26-Apr-2024

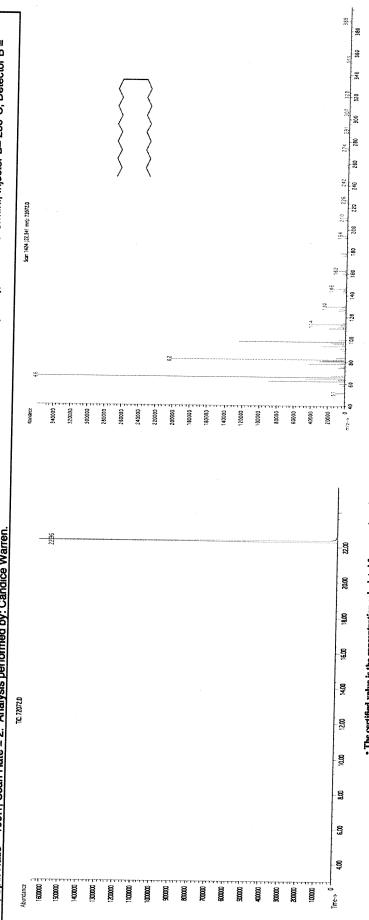


www.absolutestandards.com

CERTIFIED WEIGHT REPORT



| 112018 DATE 112018 DATE | | | <u> </u> |
|--|---|--|---|
| | hed pg.) LDS0 | N A | or B = |
| Prashant Chauhan Prashant Chauhan Pedro Rentas | SDS Information (Solvent Safety Info. On Attached pg.) CAS# OSHA PEL (TWA) LDS | N/A | tor B= 250°C, Detect |
| ad By: | | 16416-32-3 | C/min., Injec |
| Formulated By: | Expanded Uncertainty (+/-) (µg/mL) | 4.2 | Rate = 10° |
| | Expanded Actual Uncertainty Conc (ug/mL) (+/-) (ug/mL). | 1000.2 | 0°C (9min.), |
| Lot# 102669 | Actual Weight(g) | 0.20415 | emp 2 = 30 |
| Solvent(s): Methylene chloride [5] [7] [7] [7] [7] [7] [8] [9] [9] [9] [9] | Target Weight(g) | 0.20411 | °C (1min.), |
| Methylen R (R (E, vel by S) 904 (4 - P 9053 5E-05 Balance Uncertainty 0.058 Hast Uncertainty | Purity Uncertainty (%) Purity | 0.2 | emp 1 = 50 |
| (4 (4 - 5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6 | Purity (%) | 88 | kness) T Varren. |
| 200.00 | Nominal Conc (µg/mL) | 1000 | um film thick: Candice W |
| 72072 112018 n-Tetracosane-d50 112028 Ambient (20 °C) 1000 2684186 ited to (mL): | Lot Number | 2072 PR-17753/09216TC1 | alysis performed by |
| and dillu | RM# | 2072 | 2. An |
| Part Number: 72072 Lot Number: 112018 Description: n-Tetracos Expiration Date: 112028 Recommended Storage: Ambient (2 Nominal Concentration (µg/mL): 1000 NIST Test ID#: 2684186 Weight(s) shown below were combined and diluted to (mL): | Compound | 1. n-Tetracosane-d50 Method GC8MSD-3 M- Column-SDB-5 | 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren. |



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 Standards are certified (4+) 0.5% of the stated value, unless otherwise stated.
 All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result,"
 NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.

www.absolutestandards.com



Run 40, "P72072 L112018 [1000µg/mL in MeCl2]"

Sampled: Sequence "112018-GC4M1", Method "GC4-M1". Analyzed using Method "GC4-M1". Run Length: 35.00 min, 20999 points at 10 points/second. Created: Thu, Nov 22, 2018 at 7:23:18 AM.

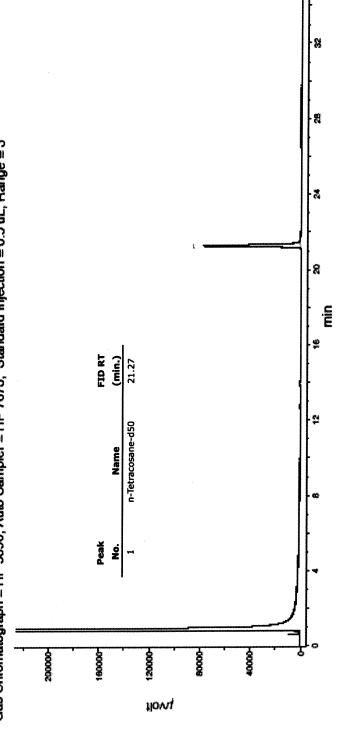
Comments

GC4-M1 Analysis by Melissa Stonier Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5um Film Thickness

Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 ml., Helium (make-up) = 25 ml., Hydrogen (detector) = 30 ml., Air (detector) = 360 ml.

Oven Temp 1 = 50°C (1 min), Rate = 10°C/min, Oven Temp 2 = 300°C (9 min), Total Run Time = 35 Minutes. Injector Temp = 200°C, FID Temp = 300°C, FID Signal = eDaq Channel 1.

Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 3



Printed: 10/31/2019, 11:22:08 AM

n-Hexane 95% **ULTRA RESI-ANALYZED** For Organic Residue Analysis





Johns Certificate of Analysis

Material No.: 9262-03 Batch No.: 24G1962003

Manufactured Date: 2024-05-23 Expiration Date: 2025-08-22

Revision No.: 0

| Test | Specification | Result |
|---|---------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | 3 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | ≤ 5 | 1 |
| Assay (Total Saturated Colsomers) (by GC, corrected for water) | ≥ 99.5 % | 99.7 % |
| Assay (as n-Hexane) (by GC, corrected for water) | ≥ 95 % | 98 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.1 ppm |
| Substances Darkened by H2SO4 | Passes Test | Passes Test |
| Water (by KF, coulometric) | ≤ 0.05 % | < 0.01 % |

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

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak Director Quality Operations, Bioscience Production