

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

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

Order ID: Q2555

Test: Pesticide-TCL

Prepbatch ID: PB168810,

**Sequence ID/Qc Batch ID:** pd071125,pd071425,pd072425,

#### Standard ID:

EP2613, EP2624, 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, PP24329, PP24433, PP24621, PP24622, PP24627, PP24651, PP24663, PP24738, PP24739, PP24740, PP24741, PP24742, PP24744, PP24745, PP24746, PP2474747, PP24748, PP24749, PP24750, PP24751, PP24752, PP24753, PP24753, PP24754, PP24755, PP24756, PP24757, PP24758, PP24759, PP24760, PP24761, PP24762, PP24763, PP24764, P

#### Chemical ID:

E3551,E3877,E3914,E3927,E3932,E3933,E3937,E3941,E3944,E3950,E3951,E3956,P12603,P12604,P12610,P12611,P13037,P13038,P13040,P13041,P13195,P13196,P13246,P13356,P13405,P13774,P13785,P13786,P13788,P13861,P13862,P9052,P9053,W3177,



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## **Extractions STANDARD PREPARATION LOG**

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

<b>FROM</b>	4000.0000ml of E3932 + 4000.00000ml of E3933 = Final Quantity: 8000.000 ml
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Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Riteshkumar Patel
3923	Baked Sodium Sulfate	EP2624	06/26/2025	12/04/2025	RUPESHKUMA R SHAH	Extraction_SC ALE 2	None	06/26/2025
			<u> </u>			(EX-SC-2)		00,20,2020

**FROM** 4000.0000gram of E3551 = Final Quantity: 4000.000 gram





## 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  Ankita Jodhani
84	Pest/PCB Surrogate Stock 20 PPM	PP24255	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
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





## 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
1472	20 PPM Pest Stock Solution 2nd Source	PP24257	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
1273	20 PPM Mirex Stock (Primary Source)	PP24258	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025

**FROM** 0.20000ml of P9052 + 9.80000ml of E3877 = Final Quantity: 10.000 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  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
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Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  Ankita Jodhani
3630	100/100 PPB PEST Working std.1st Source(RESTEK)	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



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#### Pest/Pcb STANDARD PREPARATION LOG

80		<u>cipe</u> D	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  Ankita Jodhani
	8	30	9	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

Recipe ID	<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
386	1000/100 PPB Chlordane STD (Restek)	PP24262	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025

FROM 0.10000ml of P12603 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml



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## Pest/Pcb STANDARD PREPARATION LOG

ID NAI	AME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  Ankita Jodhani
	000/100 ppb Chlordane TD-RESTEK 2ND SOURCE	PP24266	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025

<b>FROM</b>	0.10000ml of P12611 + 99.40000ml of E3877	' + 0.50000ml of PP24255 =	Final Quantity: 100.000 ml
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Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<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





## Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 3669	NAME  1000/100 PPB TOXAPHENE STD 2nd source (RESTEK)	NO. PP24268	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	PipetteID None	Supervised By Ankita Jodhani 03/12/2025		
FROM	00/12/2020									

ROM	0.10000ml of P13861 + 99.40000ml of E3877 + 0.50000ml of PP24255	5 = Final Quantity: 100.000 ml
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Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  Ankita Jodhani
3631	75 PPB ICAL PEST STD(RESTEK)	PP24269	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025

0.75000ml of E3877 + 0.25000ml of PP24260 = Final Quantity: 1.000 ml **FROM** 





## 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
	50 PPB ICAL PEST STD(RESTEK)	<u>PP24270</u>	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025

<b>FROM</b>	0.50000ml of E3877 + 0.50000ml of PP24260	= Final Quantity: 1.000 m	ηl
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Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  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



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## 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
3634	5 PPB ICAL PEST STD(RESTEK)	PP24272	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025
		1						

FROM	0.90000ml of E3877 + 0.10000ml of PP24270	= Final Quantity: 1.000 ml
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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipettelD	Supervised By
3988	50 PPB PEST ICV STD(RESTEK)		03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

**FROM** 0.50000ml of E3877 + 0.50000ml of PP24261 = 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
528	CHLOR 750 PPB STD	PP24274	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025
			<u> </u>					00/12/2020

<b>FROM</b>	0.25000ml of E3877 + 0.75000ml of PP24262 = Final Quantity: 1.000 ml
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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>	Ankita Jodhani
529	CHLOR 500 PPB STD	PP24275	03/11/2025	08/12/2025	Abdul Mirza	None	None	
								03/12/2025

**FROM** 0.50000ml of E3877 + 0.50000ml of PP24262 = 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
530	CHLOR 250 PPB STD	PP24277	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025
			<u> </u>					00/12/2020

Recipe				<b>Expiration</b>	<u>Prepared</u>			Supervised By
<u>ID</u> 3408	NAME CHLOR 50 PPB STD	NO.	Prep Date 03/11/2025	<u>Date</u> 08/12/2025	<u>By</u> Abdul Mirza	<u>ScaleID</u> None	PipetteID None	Ankita Jodhani
3400	CHEOK 3011 B 31B	1124210	03/11/2023	00/12/2023	Abdul Will Za	None	None	03/12/2025

**FROM** 0.90000ml of E3877 + 0.10000ml of PP24275 = 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
532	CHLOR 500 PPB ICV STD	PP24279	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025
								00/12/2020

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

**FROM** 0.25000ml of E3877 + 0.75000ml of PP24267 = 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
534	TOX 500 PPB STD	PP24281	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025
								00: 12:2020

<b>FROM</b>	0.50000ml of E3877 + 0.50000ml of PP24267	= Final Quantity: 1.000 ml
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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
535	TOX 250 PPB STD	PP24282	03/11/2025	08/12/2025	Abdul Mirza	None	None	
								03/12/2025

**FROM** 0.75000ml of E3877 + 0.25000ml of PP24267 = 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
2217	TOX 100 PPB STD	PP24283	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025
			<u> </u>					00/12/2020

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

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

**FROM** 0.50000ml of E3877 + 0.50000ml of PP24268 = Final Quantity: 1.000 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 = Fin	Il Quantity: 10.000 ml
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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



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## Pest/Pcb STANDARD PREPARATION LOG

ID NAI	AME	<u>NO.</u>	Prep Date	<u>Date</u>	Ву	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
	00 PPB TOXAPHENE SPIKE ESTEK)	PP24621	06/04/2025	09/10/2025	Abdul Mirza	None	None	06/11/2025

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1501	1000 ppb CHLORDANE SPIKE (RESTEK)	PP24622	06/04/2025	09/09/2025	Abdul Mirza	None	None	06/11/2025

**FROM** 0.10000ml of P12611 + 99.90000ml of E3937 = Final Quantity: 100.000 ml



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## Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
79	500 PPB Pesticide Spike Solution	PP24627	06/10/2025	08/12/2025	Abdul Mirza	None	None	06/11/2025
								00/11/2025

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
4027	Pesticide resolution Check Mixture 8081	PP24651	06/16/2025	12/11/2025	Abdul Mirza	None	None	07/22/2025

**FROM** 1.00000ml of P13246 + 99.00000ml of E3941 = Final Quantity: 100.000 ml



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## 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 Yogesh Patel
465	200 PPB Pest/PCB Surrogate Spike	PP24663	06/24/2025	12/24/2025	Abdul Mirza	None	None	07/21/2025

<b>FROM</b>	1.00000ml of P13786 + 999.00000ml of E394	4 = Final Quantity: 1000.000 ml
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Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3629	20 PPM PEST stock Solution 1st source(RESTEK)	PP24738	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

FROM 1.00000ml of P13038 + 9.00000ml of E3956 = Final Quantity: 10.000 ml





## Pest/Pcb STANDARD PREPARATION LOG

<u>ID</u> <u>NAME</u>		<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel
1472 20 PPM F Source	Pest Stock Solution 2nd	PP24739	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

FROM	1.00000ml of P13041 + 9.00000ml of E3956 = Final Quantity: 10.000 ml

Recipe	NAME	NO	Dron Data	Expiration	<u>Prepared</u>	SaalalD	DinettelD	Supervised By
<u>ID</u> 1273	NAME 20 PPM Mirex Stock (Primary	NO.	Prep Date 07/21/2025	<u>Date</u> 01/21/2026	<u><b>By</b></u> Abdul Mirza	<u>ScaleID</u> None	PipetteID None	Yogesh Patel
1273	Source)	<u>PP24740</u>	07/21/2025	01/21/2020	Abdul Miliza	None	None	07/24/2025

**FROM** 1.00000ml of P9053 + 9.00000ml of E3956 = Final Quantity: 10.000 ml





## Pest/Pcb STANDARD PREPARATION LOG

ID NAM	<u>ME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	Ву	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
	PPM MIREX Stock STD scondary source)	PP24741	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

<b>FROM</b>	1.00000ml of P13196 + 9.00000ml of E3956 = Final Quantity: 10.000 ml
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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	<u>PipetteID</u>	Supervised By Yogesh Patel
84	Pest/PCB Surrogate Stock 20 PPM	PP24742	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

**FROM** 1.00000ml of P13788 + 9.00000ml of E3956 = Final Quantity: 10.000 ml





#### Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Yogesh Patel
3630	100/100 PPB PEST Working std.1st Source(RESTEK)	PP24744	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

**FROM** 98.50000ml of E3956 + 0.50000ml of PP24738 + 0.50000ml of PP24740 + 0.50000ml of PP24742 = Final Quantity: 100.000 ml

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
80	100/100 PPB Pesticide Working Solution 2nd Source	PP24745	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

**FROM** 98.50000ml of E3956 + 0.50000ml of PP24739 + 0.50000ml of PP24741 + 0.50000ml of PP24742 = Final Quantity: 100.000 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 Yogesh Patel
386	1000/100 PPB Chlordane STD (Restek)	PP24746	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

FROM	0.10000ml of P12604 + 99.40000ml of E3956 + 0.50000ml of PP24742 =	Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3746	1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE	PP24747	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

FROM 0.10000ml of P12610 + 99.40000ml of E3956 + 0.50000ml of PP24742 = Final Quantity: 100.000 ml



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## 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 Yogesh Patel
383	1000/100 PPB Toxaphene STD (Restek)	PP24748	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

FROM 0.10000ml of P13774 + 99.40000ml of E3956 + 0.50000ml of PP24742 = Final Quantity: 100	.000	ml
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Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3669	1000/100 PPB TOXAPHENE STD 2nd source (RESTEK)	PP24749	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

FROM 0.10000ml of P13862 + 99.40000ml of E3956 + 0.50000ml of PP24742 = 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 Yogesh Patel
3631	75 PPB ICAL PEST STD(RESTEK)	PP24750	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3632	50 PPB ICAL PEST STD(RESTEK)	PP24751	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

**FROM** 0.50000ml of E3956 + 0.50000ml of PP24744 = Final Quantity: 1.000 ml





## Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
	25 PPB ICAL PEST STD(RESTEK)	PP24752	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025

Recipe				<u>Expiration</u>	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel
3634	5 PPB ICAL PEST STD(RESTEK)	PP24753	07/21/2025	01/21/2026	Abdul Mirza	None	None	
								07/24/2025

**FROM** 0.90000ml of E3956 + 0.10000ml of PP24751 = 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 Yogesh Patel
3988	50 PPB PEST ICV STD(RESTEK)	PP24754	07/21/2025	01/21/2026	Abdul Mirza	None	None	07/24/2025
								0772472025

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>	Yogesh Patel
528	CHLOR 750 PPB STD	PP24755	07/21/2025	01/21/2026	Abdul Mirza	None	None	o o
								07/24/2025

**FROM** 0.25000ml of E3956 + 0.75000ml of PP24746 = 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 Yogesh Patel
529	CHLOR 500 PPB STD	PP24756	07/21/2025	01/21/2026	Abdul Mirza	None	None	3
								07/24/2025

Recipe				<u>Expiration</u>	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel
530	CHLOR 250 PPB STD	PP24757	07/21/2025	01/21/2026	Abdul Mirza	None	None	
								07/24/2025

**FROM** 0.75000ml of E3956 + 0.25000ml of PP24746 = 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 Yogesh Patel
3408	CHLOR 50 PPB STD	PP24758	07/21/2025	01/21/2026	Abdul Mirza	None	None	· ·
								07/24/2025

<b>FROM</b>	0.90000ml of E3956 + 0.10000ml of PP24756 = Final Quantity: 1.000	ml
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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>	Yogesh Patel
532	CHLOR 500 PPB ICV STD	PP24759	07/21/2025	01/21/2026	Abdul Mirza	None	None	Ü
								07/24/2025

**FROM** 0.50000ml of E3956 + 0.50000ml of PP24747 = 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 Yogesh Patel
533	TOX 750 PPB STD	PP24760	07/21/2025	01/21/2026	Abdul Mirza	None	None	regeen rate.
								07/24/2025

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>	Yogesh Patel
534	TOX 500 PPB STD	PP24761	07/21/2025	01/21/2026	Abdul Mirza	None	None	
								07/24/2025

**FROM** 0.50000ml of E3956 + 0.50000ml of PP24748 = 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 Yogesh Patel
535	TOX 250 PPB STD	PP24762	07/21/2025	01/21/2026	Abdul Mirza	None	None	Ü
								07/24/2025

<b>FROM</b>	0.75000ml of E3956 + 0.25000ml of PP24748 = Final Quantity: 1.000 ml
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Recipe				<u>Expiration</u>	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel
2217	TOX 100 PPB STD	PP24763	07/21/2025	01/21/2026	Abdul Mirza	None	None	
								07/24/2025

**FROM** 0.90000ml of E3956 + 0.10000ml of PP24748 = Final Quantity: 1.000 ml





## Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 3670	NAME TOX 500 PPB ICV std ( RESTEK)	NO. PP24764	Prep Date 07/21/2025	Expiration Date 01/21/2026	Prepared By Abdul Mirza	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/24/2025
FROM	0.50000ml of PP24749 = Final Quar	ntity: 1.000	ml					



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	243570	08/12/2025	02/12/2025 / Rajesh	02/12/2025 / Rajesh	E3877
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)	243570	09/19/2025	03/19/2025 / RUPESH	03/13/2025 / RUPESH	E3914
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	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 #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/22/2025	05/22/2025 / RUPESH	05/14/2025 / RUPESH	E3937
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)	243570	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3941
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	05/24/2027	06/20/2025 / RUPESH	05/14/2025 / RUPESH	E3944
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	04/30/2026	07/08/2025 / RITESHKUMA R	07/03/2025 / RUPESH	E3950
Seidler Chemical  Supplier	1	25C0362005	04/30/2026  Expiration Date	RITESHKUMA		E3950  Chemtech Lot #
	Ultra-Resi (cs/4x4L)		Expiration	RITESHKUMA R  Date Opened /	RUPESH  Received Date /	Chemtech
Supplier	ItemCode / ItemName  BA-3382-05 / Sand,	Lot #	Expiration Date	RITESHKUMA R  Date Opened / Opened By  07/09/2025 /	RUPESH  Received Date / Received By  04/28/2020 /	Chemtech Lot #



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0197993	09/11/2025	03/10/2025 / Abdul	07/03/2023 / Abdul	P12603
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0197993	01/21/2026	07/21/2025 / Abdul	07/03/2023 / Abdul	P12604
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0197993	01/21/2026	07/21/2025 / Abdul	07/03/2023 / Abdul	P12610
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0193299	09/09/2025	03/10/2025 / Abdul	07/03/2023 / Abdul	P12611
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech 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	A0200423	01/21/2026	07/21/2025 / Abdul	12/26/2023 / Abdul	P13038



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 #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0199099	07/21/2026	07/21/2025 / Abdul	12/26/2023 / Abdul	P13041
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 /	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	042022	01/21/2026	07/21/2025 / Abdul	01/17/2024 / Abdul	P13196
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Absolute Standards, Inc.	19161 / 8081 pesticide resolution check mixture	013124	12/17/2025	06/17/2025 / Abdul	02/09/2024 / Abdul	P13246
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
	32000 / Pesticide Mix, CLP	A0206810	09/18/2025	03/18/2025 /	04/22/2024 /	P13356



### **CHEMICAL RECEIPT LOG BOOK**

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	32005 / Toxaphene Standard	A0203038	01/21/2026	07/21/2025 / Abdul	05/03/2024 / Ankita	P13774
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	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0214495	12/24/2025	06/24/2025 / Abdul	11/19/2024 / Ankita	P13786
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	01/21/2026	07/21/2025 / Abdul	11/19/2024 / Ankita	P13788
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



### CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0210240	01/21/2026	07/21/2025 / Abdul	12/09/2024 / Abdul	P13862

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 #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	112018	01/21/2026	07/21/2025 / Abdul	11/01/2019 / Stephen	P9053

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



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:

Na<sub>2</sub>SO<sub>4</sub>

SPECIFICATION NUMBER: 6399

RELEASE DATE:

ABR/21/2023

LOT NUMBER:

313201

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na <sub>2</sub> SO <sub>4</sub> )	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 <sub>4</sub> )	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



### 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		s starting raw material ingredients, or used naterial that might migrate to the finished p	

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.

<sup>\*</sup>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

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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 s processing aids, or any other mat	tarting raw material ingredients, or used erial 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
WATER (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.

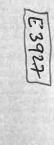
<sup>\*</sup>Based on suggested storage condition.



**CAT# FS0006**  MFG#:G01256 LOT#:Z0830QB1

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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 <sub>3</sub> ) <sub>2</sub> 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 <sub>2</sub> 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 <sub>6</sub> 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

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 <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected forwater)	>= 99.4 %	
Color (APHA)	<= 10	99.8 %
Residue after Evaporation	<= 1.0 ppm	5
Substances Reducing Permanganate	Passes Test	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	Passes Test
Fitrable Base (μeq/g)	<= 0.6	0.2
Vater (H₂O)	<= 0.5 %	<0.1
ID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak	<= 5	0.2 %
CD Sensitive Impurities (as HeptachlorEpoxide) Single Peak	<= 10	<1 1

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

**Country of Origin: United States** 

Packaging Site: Phillipsburg Mfg Ctr & DC

E3937



### 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	and the second s	1770112024
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	Nov/2029
Chemical Origin	Organic - non animal	33 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -	1107/2020
BSE/TSE Comment	No animal products are used as processing aids, or any other ma	starting raw material ingredients, or used aterial that might migrate to the finished pr	in processing, including lubricants, roduct.

N/A	A POLICE OF THE PARTY OF THE PA	THE RESERVED FOR THE PARTY OF T	- 4-17, 1169
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
DENTIFICATION	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
HIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
VATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

Kub Salyu

Red by R1 on 6/11/25

Harout Sahagian - Quality Control Manager - Fair Lawn

E 3941

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.

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 <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected forwater)	>= 99.4 %	
Color (APHA)	<= 10	99.8 %
Residue after Evaporation	<= 1.0 ppm	5
Substances Reducing Permanganate	Passes Test	0.2 ppm
Titrable Acid (µeq/g)		Passes Test
Titrable Base (μeq/g)	<= 0.3	0.2
Water (H2O)	<= 0.6	<0.1
ID–Sensitive Impurities (as 2–Octanol)Single Impurity Peak	<= 0.5 %	0.2 %
ng/mL)	<= 5	<1
CD Sensitive Impurities (as HeptachlorEpoxide) Single Peak	<= 10	1

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

**Country of Origin: United States** 

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

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

Read on 7/02/25

J Cloak

Jamie Croak
Director Quality Operations, Bioscience Production

3950



### Certificate of Analysis

Material

**Material Description** 

Grade

BDH9274-2.5KG

BDH SAND STDD OTTAWA W+I 2.5KG

**NOT APPLICABLE** 

**Batch** 

Reassay Date

**CAS Number** 

Molecular Formula Molecular Mass

**Date of Manufacture** 

Storage

25A2756718 12/31/2028

14808-60-7

SiO2 60.09

12/05/2024

Room Temperature

Characteristics

**Specifications** 

**Measured Values** 

**Appearance** 

Moisture

Particle Size 30-40 mesh

CUSTOMER PART # BDH9274-2.5KG

Beige granules.

<= 0.1 %

Beige granules.

0.1 %

99 %

Received on A19125.

Internal ID #: 793

Signature

Additional Information

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

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

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

28600 Fountain Parkway, Solon OH 44139 USA

Analysis may have been rounded to significant digits in specification limits

Product meets analytical specifications of the grades listed.

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

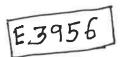
Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C <sub>6</sub> 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 H <sub>2</sub> SO <sub>4</sub>	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

Recieved on 7/16/25





### **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	∂CAS#	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

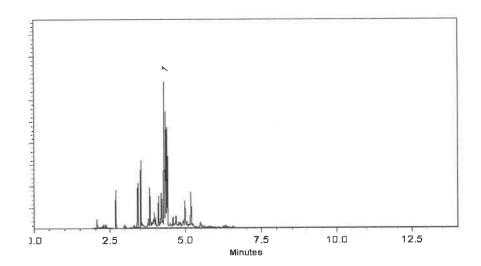
300 C

### 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

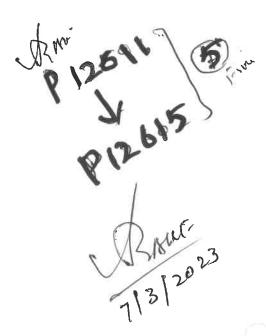
Balance Serial #

B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

09-Jan-2023





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:

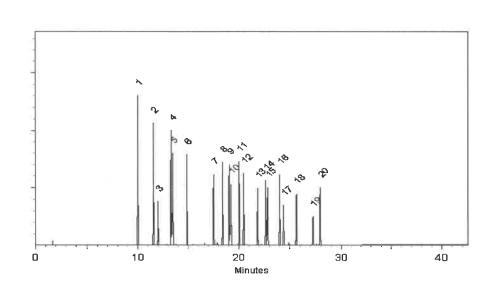
Det. Type:

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



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:

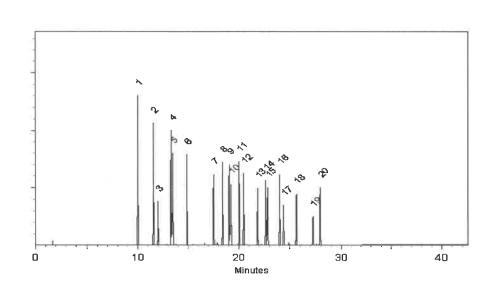
Det. Type:

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

www.absolutestandards.com

# Certified Reference Material CRM



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

## CERTIFIED WEIGHT REPORT

Part Number: Lot Number: Description: Mirex 042022 79136 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

50.0

5E-05 Balance Uncertainty

Reviewed By:

Pedro L. Rentas

042022

DATE

0.006 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): RM# ĕ Conc (µg/mL) Nominal Purity 3 Uncertainty Punty Weight (g) Target Weight (g) Actual Conc(µg/mL) Actual (+/-) (µg/mL Uncertainty Expanded CAS# (Solvent Safety Info. On Attached pg.) SDS Information OSHA PEL (TWA)

1. Mirex = 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 orl-rat 306mg/kg

437

9492400

1000

99.4

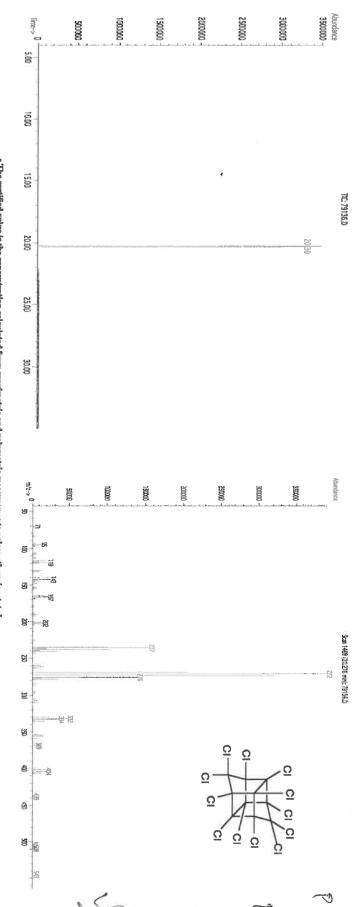
0.05034

0.05040

1001.1

10.3

2385-85-5

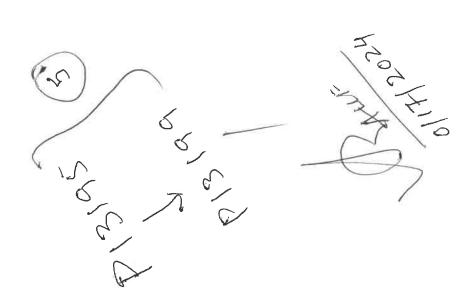


- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
   Standards are certified (+/-) 0.5% of the stated value,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



www.absolutestandards.com

# Certified Reference Material CRM



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

## CERTIFIED WEIGHT REPORT

Part Number: Lot Number: Description: Mirex 042022 79136 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

50.0

5E-05 Balance Uncertainty

Reviewed By:

Pedro L. Rentas

042022

DATE

0.006 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): RM# ĕ Conc (µg/mL) Nominal Purity 3 Uncertainty Punty Weight (g) Target Weight (g) Actual Conc(µg/mL) Actual (+/-) (µg/mL Uncertainty Expanded CAS# (Solvent Safety Info. On Attached pg.) SDS Information OSHA PEL (TWA)

1. Mirex = 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 orl-rat 306mg/kg

437

9492400

1000

99.4

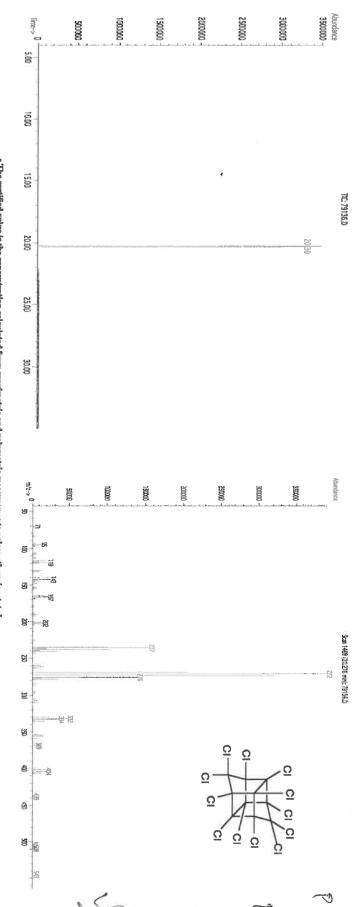
0.05034

0.05040

1001.1

10.3

2385-85-5

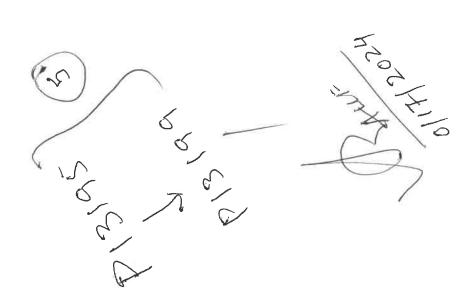


- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
   Standards are certified (+/-) 0.5% of the stated value,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



### **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

Det. Type:

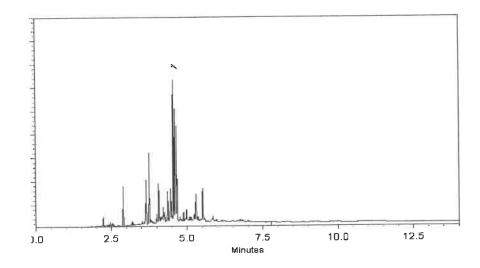
ECD

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.

Morgan Creighead - Mix Technician

Date Mixed:

11-May-2023

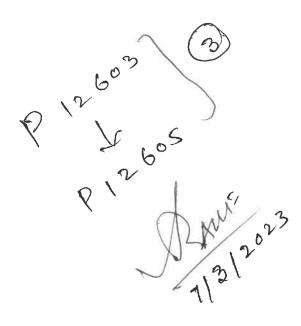
Balance Serial #

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

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### **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.



### **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

Det. Type:

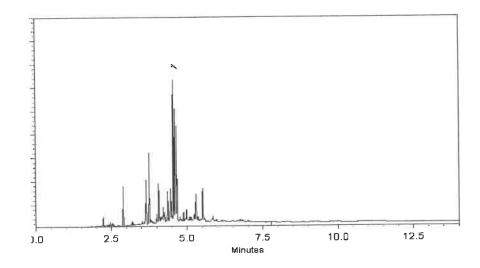
ECD

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.

Morgan Creighead - Mix Technician

Date Mixed:

11-May-2023

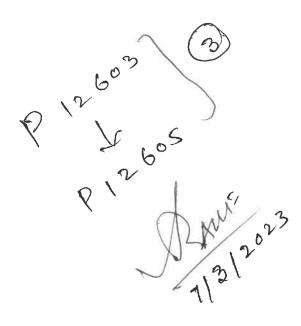
Balance Serial #

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

### **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

rkg Amt: 2 | III

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	57-74-9	978545	%	1,005.0 μg/mL	+/- 55.7700
	10% trans-Chlordane; 9% cis-Chlordane; 81% other					
	isomers					

\* 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.

### **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

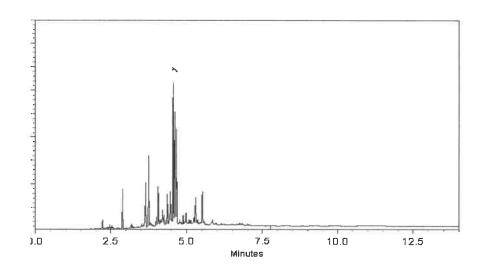
Det. Type: ECD

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.

Morray Craighard - Mix Technician

Date Mixed:

11-May-2023

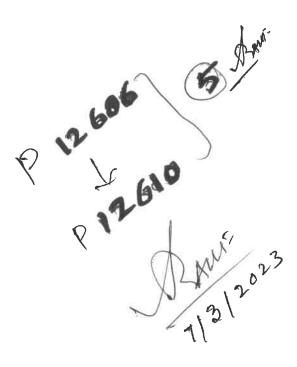
Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

16-May-2023







### **CERTIFIED REFERENCE MATERIAL**







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### **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

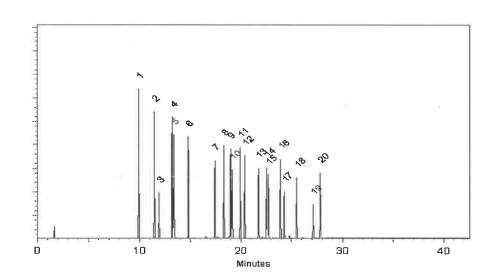
Det. Type:

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





### **CERTIFIED REFERENCE MATERIAL**







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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

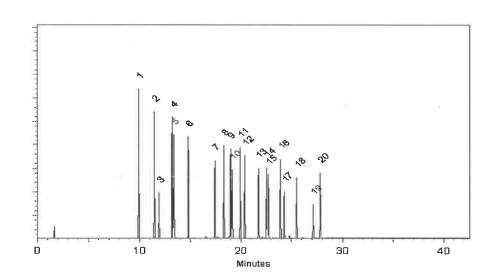
Det. Type:

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		<b>SDS Information</b>	
	Part	Lot	Dil	Initial	Initial Uncertainty	Initial	Initial Final Uncertainty	Uncertainty		(Solvent Safety Info. On Attached pg.)	ached pg.)
npound	Nimber	Nismbor	Fortor		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

White Co.							-				
volume(s) snown below were combined and diluted to (mL):	and diluted	to (mL):	100.0	0.021	Flask Uncertainty						
								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	<u>1</u> .00	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	NA	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	N/A	ori-rat 18mg/kg
Endrin ketone	19361	013124	0.010	1.00	0.004	202.6	2.0	0.03	53494-70-5	N/A	N/A
A AT NA											

Sold Sold Sold Sold Sold Sold Sold Sold	se stated.		$\sim$	
1,5	Jana 2024	- 13	0	

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).



### 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. P133401

Catalog No.:

32000

Lot No.: A0206810

**Description:** 

Pesticide Surrogate Mix

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

Container Size:

use.

Pkg Amt:

> 1 mL

**Expiration Date:** 

April 30, 2030

Storage:

10°C or colder

Handling:

Contains PCBs - sonicate prior to

Ship:

Ambient

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# **Purity** 

67-64-1 99%

### 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:

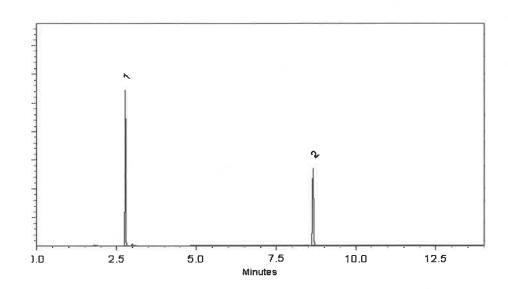
ECD

### Split Vent:

10 ml/min.

### Inj. Vol

inj. vo 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

Jumps of Bollert

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

13348 (10)
P13357
P13357
04/25/2025



## **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.:

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

<sup>\*</sup> 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

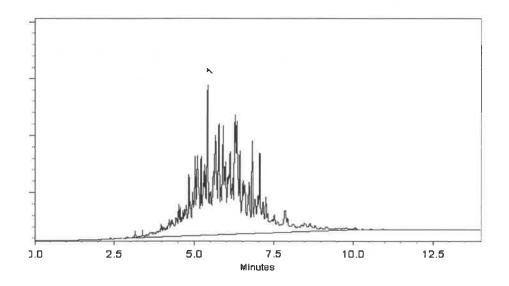
Det. Type:

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

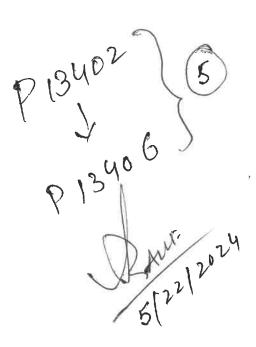
Balance Serial #

1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

16-Oct-2023





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

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# **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.: A0203038 32005 Catalog No.:

**Toxaphene Standard** Description:

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

January 31, 2028 Expiration Date: Container Size:

10°C or colder Ambient Ship: Storage: Pkg Amt:

# VALUES CERTIFIED

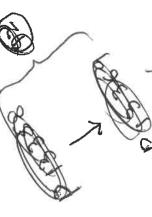
Expanded Uncertainty * (95% C.L.; K=2)	+/- 55.9920
Purity Grav. Conc. (weight/volume)	% 1,009.0 µg/mL +/- 55.9920
Lot#	1051817
CAS#	8001-35-2 1051817
Compound	
	Toxaphene
Elution Order	.

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

110-54-3

Hexane CAS# Purity

Solvent:



Arreld Maler 613473

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

Carrier Gas:

helium-constant pressure 20 psl.

Temp. Program:

@ 25°C/min. ( hold 10 mln.) 200°C to 300°C

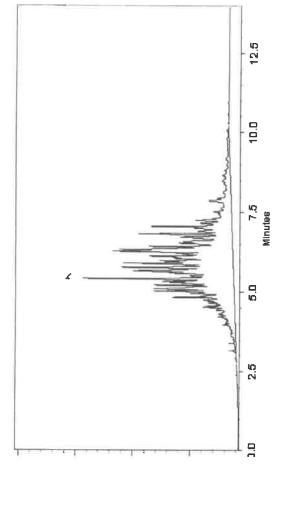
Inj. Temp: 250°C

Det. Temp: 300°C

Det. Type: Spllt 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

10-Oct-2023 Date Mixed:

Balance Serial#

1128353505

Jennifer Pollino - Operations Tech III - ARM QC

16-Oct-2023 Date Passed:

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

617619



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

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# **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.:

Pesticide Surrogate Mix Description:

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

October 31, 2030 2 mL Expiration Date: Container Size:

Contains PCBs - sonicate prior to

Handling:

> 1 mL Pkg Amt: 10°C or colder Ambient Ship: Storage:

584610 68£61d

42191111

# ш RTIFIED

\* 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 product quality.

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)

helium-constant pressure 20 psi. Carrier Gas:

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

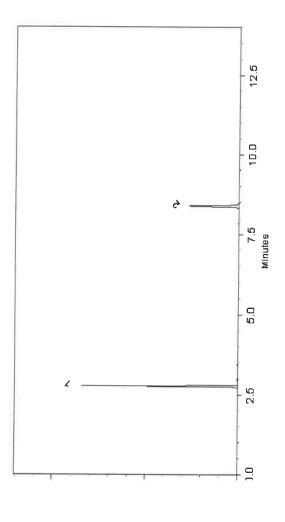
Inj. Temp:

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 |

Date Mixed:

Balance Serial# 29-Jul-2024

B345965662

Jennifer Pollino - Operations Tech III - ARM QC Granfe & Poste.

01-Aug-2024 Date Passed:



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.:

Pesticide Surrogate Mix Description:

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

October 31, 2030 2 mL Expiration Date: Container Size:

Contains PCBs - sonicate prior to

Handling:

> 1 mL Pkg Amt: 10°C or colder Ambient Ship: Storage:

584610 68£61d

42191111

# ш RTIFIED

\* 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.

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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)

helium-constant pressure 20 psi. Carrier Gas:

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

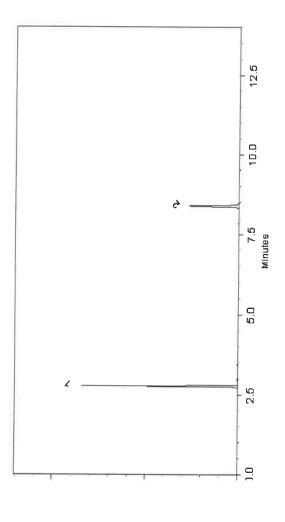
Inj. Temp:

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 |

Date Mixed:

Balance Serial# 29-Jul-2024

B345965662

Jennifer Pollino - Operations Tech III - ARM QC Granfe & Poste.

01-Aug-2024 Date Passed:



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

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# **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.:

Pesticide Surrogate Mix Description:

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

October 31, 2030 2 mL Expiration Date: Container Size:

Contains PCBs - sonicate prior to

Handling:

> 1 mL Pkg Amt: 10°C or colder Ambient Ship: Storage:

584610 68£61d

42191111

# ш RTIFIED

\* 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 product quality.

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)

helium-constant pressure 20 psi. Carrier Gas:

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

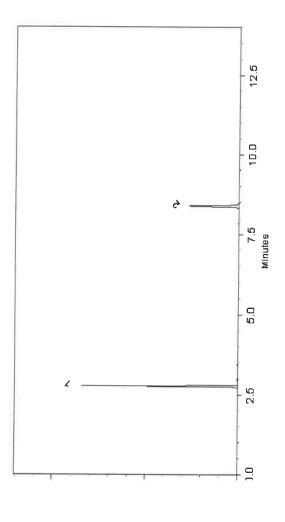
Inj. Temp:

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 |

Date Mixed:

Balance Serial# 29-Jul-2024

B345965662

Jennifer Pollino - Operations Tech III - ARM QC Granfe & Poste.

01-Aug-2024 Date Passed:



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 > 1 mL Pkg Amt: **Expiration Date:** July 31, 2028 Storage: 10°C or colder

> Ship: **Ambient**

## CERTIFIED VALUES

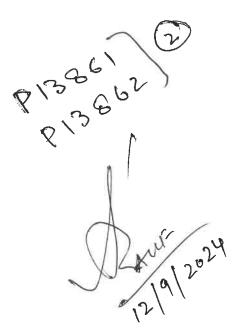
Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	%	1,009.3 μg/mL	+/- 56.0105

\_\_\_\_\_

\* 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:

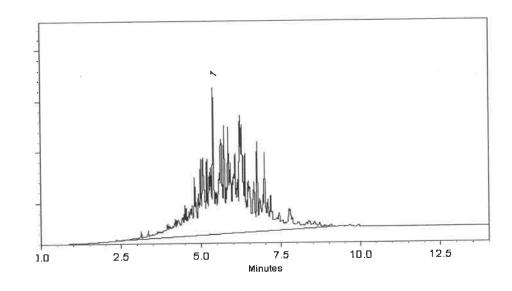
ECD

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 #

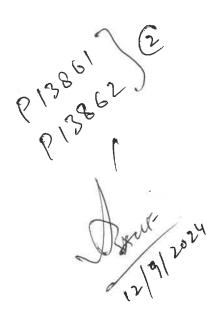
B442140311

Mist talk

Christie Mills - Operations Lead Tech - ARM QC

Date Passed:

26-Apr-2024





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

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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 > 1 mL Pkg Amt: **Expiration Date:** July 31, 2028 Storage: 10°C or colder

> Ship: **Ambient**

## CERTIFIED VALUES

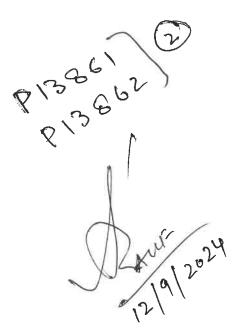
Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	%	1,009.3 μg/mL	+/- 56.0105

\_\_\_\_\_

\* 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:

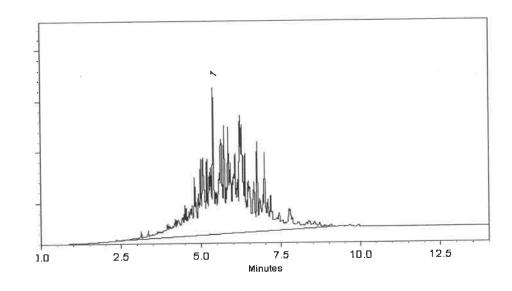
ECD

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 #

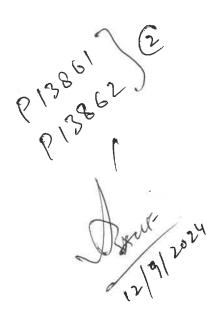
B442140311

Mist talk

Christie Mills - Operations Lead Tech - ARM QC

Date Passed:

26-Apr-2024

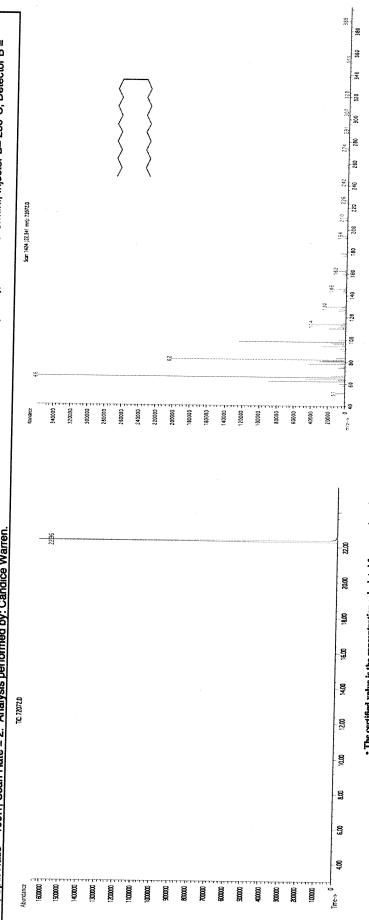


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CERTIFIED WEIGHT REPORT



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 rted 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.

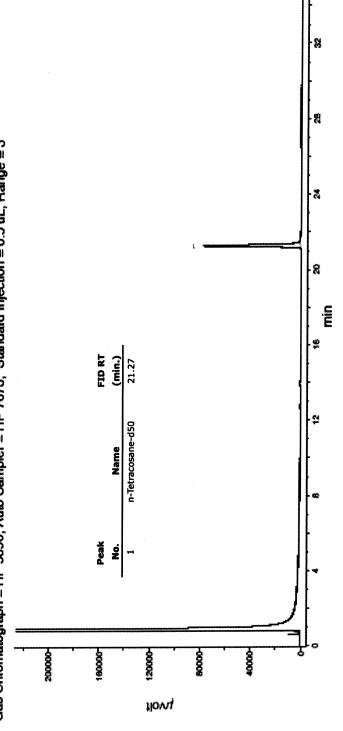
# Comments

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



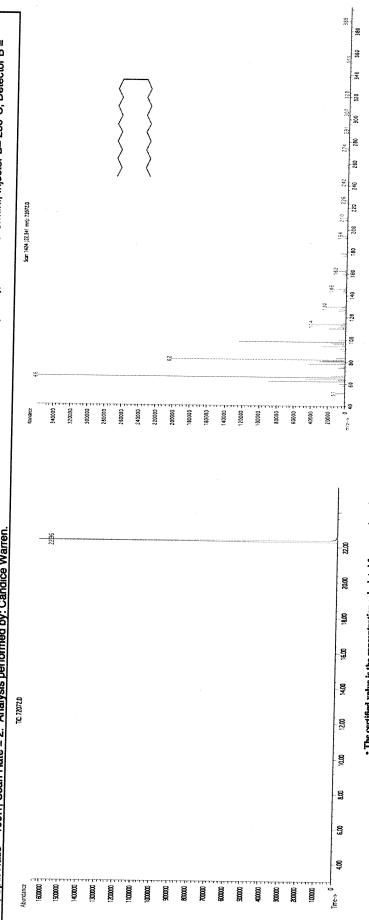
Printed: 10/31/2019, 11:22:08 AM

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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 rted 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.

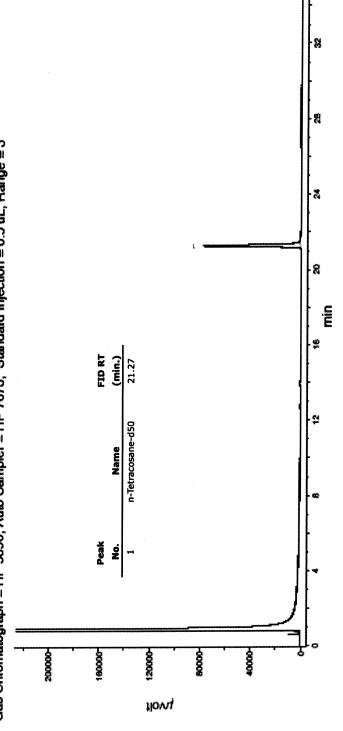
# Comments

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