

Prep Standard - Chemical Standard Summary

Order ID : Q1502

Test : PESTICIDE Group1

Prepbatch ID : PB167076,

Sequence ID/Qc Batch ID: pl031125,PL031225,

Standard ID :

EP2545,EP2593,PP23675,PP23677,PP23733,PP23793,PP24091,PP24095,PP24123,PP24255,PP24256,PP24257,PP242583,PP24259,PP24260,PP24261,PP24262,PP24266,PP24267,PP24268,PP24269,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24284,

Chemical ID:

E3551,E3792,E3805,E3806,E3815,E3843,E3846,E3847,E3877,E3878,P11146,P12603,P12611,P13037,P13039,P1304 0,P13195,P13245,P13350,P13353,P13405,P13785,P13861,P9052,



Extractions STANDARD PREPARATION LOG

Recipe ID 1215	NAME FLOROSIL CLEAN UP-WASHING SOLN	<u>NO.</u> EP2545	Prep Date 10/07/2024		Prepared By Rajesh Parikh	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By RUPESHKUMAR SHAH 10/07/2024
FROM	100.00000ml of E3815 + 900.00000r	nl of E3805	= Final Quan	ıtity: 1000.000	ml			

Recipe				Expiration	Prepared		D: (/ 10	Supervised By
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Riteshkumar Patel
3923	Baked Sodium Sulfate	EP2593	03/07/2025	07/01/2025		Extraction_SC	None	
					R SHAH	ALE_2		03/07/2025
FROM	4000.00000gram of E3551 = Final G	uantity: 400	0.000 gram			(EX-SC-2)		
	-		-					



Recipe ID 1472	NAME 20 PPM Pest Stock Solution 2nd Source	<u>NO.</u> PP23675	Prep Date 09/21/2024	Expiration Date 03/11/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 10/01/2024
FROM	1.00000ml of P13039 + 9.00000ml of	f E3792 = F	inal Quantity:	10.000 ml				

<u>Recipe</u> <u>ID</u> 3663	NAME 20 PPM MIREX Stock STD (Secondary source)	<u>NO.</u> PP23677	Prep Date 09/21/2024	Expiration Date 03/11/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 10/01/2024
FROM	0.20000ml of P11146 + 9.80000ml of	E3792 = F	inal Quantity:	10.000 ml				10/01/2024



Recipe ID 84	NAME Pest/PCB Surrogate Stock 20 PPM	<u>NO.</u> PP23733	Prep Date 10/03/2024		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 10/03/2024
FROM	1.00000ml of P13350 + 9.00000ml of	FE3805 = F	inal Quantity:	10.000 ml				

<u>Recipe</u> <u>ID</u> 518	NAME Pest/PCB I.BLK 20 PPB	<u>NO.</u> PP23793	Prep Date 10/03/2024		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 10/03/2024
FROM	99.90000ml of E3805 + 0.10000ml of	FP23733	Final Quanti	l ity: 100.000 m				10/03/2024



Recipe ID 79	NAME 500 PPB Pesticide Spike Solution	<u>NO.</u> PP24091	Prep Date 12/17/2024	Expiration Date 03/11/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 12/18/2024
FROM	95.00000ml of E3843 + 2.50000ml of	f PP23675 +	- 2.50000ml o	f PP23677 = F	inal Quantity: 1	00.000 ml		
Paging				Expiration	Bronarad			Supervised By

<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4027	Pesticide resolution Check Mixture	<u>PP24095</u>	12/23/2024	06/16/2025	Abdul Mirza	None	None	Ankita Jodhani
4027	8081	1124033	12/23/2024	00/10/2023		None	None	12/30/2024
FROM	1.00000ml of P13245 + 99.00000ml	of E3847 =	Final Quantity	/: 100.000 ml				



Recipe ID 465	NAME 200 PPB Pest/PCB Surrogate Spike	<u>NO.</u> PP24123	Prep Date 01/20/2025	Expiration Date 06/26/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 01/20/2025
FROM	1.00000ml of P13353 + 999.00000ml	of E3846 =	- Final Quanti	ity: 1000.000 n	nl			

<u>Recipe</u> <u>ID</u> 84	NAME Pest/PCB Surrogate Stock 20 PPM	<u>NO.</u> PP24255	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	1.00000ml of P13785 + 9.00000ml of	I f E3877 = F	I Final Quantity:	10.000 ml				00,12,2020



Recipe ID 3629	NAME 20 PPM PEST stock Solution 1st source(RESTEK)	<u>NO.</u> PP24256	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	1.00000ml of P13040 + 9.00000ml of	f E3877 = F	inal Quantity:	10.000 ml				

<u>Recipe</u> <u>ID</u> 1472	NAME 20 PPM Pest Stock Solution 2nd Source	<u>NO.</u> PP24257	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	PipettelD None	<u>Supervised By</u> Ankita Jodhani 03/12/2025
FROM	1.00000ml of P13037 + 9.00000ml of	E3877 = F	inal Quantity:	10.000 ml				



Recipe ID 3663	NAME 20 PPM MIREX Stock STD (Secondary source)	<u>NO.</u> PP24259	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.20000ml of P13195 + 9.80000ml of	FE3877 = F	inal Quantity:	10.000 ml				
Recipe				Expiration	Prepared			Supervised By

Recipe				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Ankita Jodhani
3630	100/100 PPB PEST Working	<u>PP24260</u>	03/11/2025	08/12/2025	Abdul Mirza	None	None	
	std.1st Source(RESTEK)							03/12/2025
FROM	98.50000ml of E3877 + 0.50000ml of	PP24255 +	- 0.50000ml o	f PP24256 + 0.	50000ml of PP2	24258 = Final C	Quantity: 100.0	00
	ml							



Recipe ID 80	NAME 100/100 PPB Pesticide Working Solution 2nd Source	<u>NO.</u> PP24261	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	98.50000ml of E3877 + 0.50000ml o ml	f PP24255 +	⊦ 0.50000ml o	f PP24257 + 0.	50000ml of PP2	24259 = Final G	Quantity: 100.0	00

<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u> Ankita Jodhani		
386	1000/100 PPB Chlordane STD (Restek)	<u>PP24262</u>	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025		
FROM	FROM 0.10000ml of P12603 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml									



Recipe ID 3746	NAME 1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE	<u>NO.</u> PP24266	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.10000ml of P12611 + 99.40000ml o	of E3877 + ().50000ml of F	P24255 = Fin	al Quantity: 100	.000 ml		
								- · · · -

<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By
383	1000/100 PPB Toxaphene STD (Restek)	PP24267	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025
FROM	0.10000ml of P13405 + 99.40000ml	of E3877 + (0.50000ml of l	PP24255 = Fir	al Quantity: 100	0.000 ml		



Recipe ID 3669	NAME 1000/100 PPB TOXAPHENE STD 2nd source (RESTEK)	<u>NO.</u> PP24268	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	PipettelD None	Supervised By Ankita Jodhani 03/12/2025
<u>FROM</u>	0.10000ml of P13861 + 99.40000ml o	of E3877 + (0.50000ml of l	PP24255 = Fin	al Quantity: 100).000 ml		
Desins				Funcing	Duran area d			Our emised Du

<u>Recipe</u> <u>ID</u> 3631	NAME 75 PPB ICAL PEST STD(RESTEK)	<u>NO.</u> PP24269	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	PipetteID None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.75000ml of E3877 + 0.25000ml of I	PP24260 =	Final Quantit	y: 1.000 ml				



Recipe ID 3632	NAME 50 PPB ICAL PEST STD(RESTEK)	<u>NO.</u> PP24270	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
<u>FROM</u>	0.50000ml of E3877 + 0.50000ml of I	PP24260 =	Final Quantity	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 3633	NAME 25 PPB ICAL PEST STD(RESTEK)	<u>NO.</u> PP24271	<u>Prep Date</u> 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	<u>Supervised By</u> Ankita Jodhani 03/12/2025
FROM	0.75000ml of E3877 + 0.25000ml of I	PP24260 =	Final Quantit	y: 1.000 ml				03/12/2025



Recipe ID 3634	NAME 5 PPB ICAL PEST STD(RESTEK)	<u>NO.</u> PP24272	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.90000ml of E3877 + 0.10000ml of I	PP24270 =	Final Quantity	y: 1.000 ml				

NAME 50 PPB PEST ICV STD(RESTEK)	<u>NO.</u> PP24273	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	PipettelD None	<u>Supervised By</u> Ankita Jodhani 03/12/2025
0.50000ml of E3877 + 0.50000ml of I	PP24261 =	Final Quantity	y: 1.000 ml				5011212025
	50 PPB PEST ICV STD(RESTEK)	50 PPB PEST ICV STD(RESTEK) PP24273	50 PPB PEST ICV STD(RESTEK) PP24273 03/11/2025	NAME NO. Prep Date Date	NAMENO.Prep DateDateBy50 PPB PEST ICV STD(RESTEK)PP2427303/11/202508/12/2025Abdul Mirza	NAMENO.Prep DateDateByScaleID50 PPB PEST ICV STD(RESTEK)PP2427303/11/202508/12/2025Abdul MirzaNone	NAMENO.Prep DateDateByScaleIDPipettelD50 PPB PEST ICV STD(RESTEK)PP2427303/11/202508/12/2025Abdul MirzaNoneNone



Recipe ID 528	NAME CHLOR 750 PPB STD	<u>NO.</u> PP24274	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.25000ml of E3877 + 0.75000ml of	PP24262 =	Final Quantity	y: 1.000 ml				

Recipe ID 529	NAME CHLOR 500 PPB STD	<u>NO.</u> PP24275	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	I 0.50000ml of E3877 + 0.50000ml of l	PP24262 =	Final Quantit	y: 1.000 ml				00/12/2023



Recipe ID 530	NAME CHLOR 250 PPB STD	<u>NO.</u> PP24277	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.75000ml of E3877 + 0.25000ml of I	PP24262 =	Final Quantit	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 3408	NAME CHLOR 50 PPB STD	<u>NO.</u> PP24278	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.90000ml of E3877 + 0.10000ml of I	I PP24275 =	Final Quantity	y: 1.000 ml				00/12/2020



FROM 0.50000ml of E3877 + 0.50000ml of PP24266 = Final Quantity: 1.000 ml	<u>Recipe</u> <u>ID</u> 532	NAME CHLOR 500 PPB ICV STD	<u>NO.</u> PP24279	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
	<u>FROM</u>	0.50000ml of E3877 + 0.50000ml of I	PP24266 =	Final Quantity	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 533	NAME TOX 750 PPB STD	<u>NO.</u> PP24280	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.25000ml of E3877 + 0.75000ml of I	PP24267 =	Final Quantity	y: 1.000 ml				00/12/2020



Recipe ID 534	NAME TOX 500 PPB STD	<u>NO.</u> PP24281	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.50000ml of E3877 + 0.50000ml of I	PP24267 =	Final Quantity	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 535	NAME TOX 250 PPB STD	<u>NO.</u> PP24282	<u>Prep Date</u> 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	PipettelD None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.75000ml of E3877 + 0.25000ml of I	PP24267 =	Final Quantity	y: 1.000 ml				03/12/2025



<u>Recipe</u> <u>ID</u> 3670	NAME TOX 500 PPB ICV std (RESTEK)	<u>NO.</u> PP24284	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.50000ml of E3877 + 0.50000ml of I	L PP24268 =	L Final Quantit	y: 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	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3792
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)	24C1862008	03/30/2025	09/30/2024 / Rajesh	09/25/2024 / Rajesh	E3805
		· 	Expiration		Received Date /	Chemtech

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agela Technologies Inc.	FS0006 / Cleanert Florisil cartridge	M06518	09/25/2025	10/01/2024 / Rajesh	09/25/2024 / Rajesh	E3806

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	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

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)	24H2762008	06/05/2025	12/05/2024 / Rajesh	12/05/2024 / Rajesh	E3843



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)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846
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	06/16/2025	12/16/2024 / Rajesh	12/13/2024 / Rajesh	E3847
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 Bv	Chemtech Lot #

Supplier	ItemCode / ItemName	Lot #	Date	Opened By	Received By	Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	102821	03/21/2025	09/21/2024 / Abdul	10/29/2021 / Abdul	P11146

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.	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 / Received By	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	A0199099	03/21/2025	09/21/2024 / Abdul	12/26/2023 / Abdul	P13039
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0199099	09/10/2025	03/10/2025 / Abdul	12/26/2023 / Abdul	P13040
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	042022	09/10/2025	03/10/2025 / Abdul	01/17/2024 / Abdul	P13195
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	19161 / 8081 pesticide resolution check mixture	013124	06/23/2025	12/23/2024 / Abdul	02/09/2024 / Abdul	P13245



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	04/03/2025	10/03/2024 / Ankita	04/22/2024 / Abdul	P13350
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	07/20/2025	01/20/2025 / Abdul	04/22/2024 / Abdul	P13353
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203038	09/09/2025	03/10/2025 / Abdul	05/15/2024 / Abdul	P13405
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0214495	09/10/2025	03/10/2025 / Abdul	11/19/2024 / Ankita	P13785
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0210240	09/10/2025	03/10/2025 / Abdul	12/09/2024 / Abdul	P13861
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	112018	09/10/2025	03/10/2025 / Abdul	11/01/2019 / Stephen	P9052



PRODUCTOS QUIMICOS MONTERREY, S.A. DE CY. MIRADOR 201, COL. MIRADOR MONTERREY, N.L. MEXICO CP 64070 TEL +52 81 13 52 57 57 WWW.pqm.com.mx

CERTIFICATE OF ANALYSIS

	SODIUM SULFATE CRYSTALS / ACS (CODE RMB3375)			8 F 1994 1994
SPECIFICATION NUMBER :	-		E DATE:	Na ₂ SO ₄ ABR/21/2023
	3201	N.a.L.a.M.O	E 1./A I E.	ADR/2 1/2023
TEST	SPECI	FICATIONS	LOT V	ALUES
Assay (Na ₂ SO ₄)	Min. 99	1.0%	99.7 %	
pH of a 5% solution at 25°C	5.2 - 9.	2	6.1	
Insoluble matter	Max. 0.	01%	0.005	1
Loss on ignition	Max. 0.	5%	0.1 %	16
Chloride (Cl)	Max. 0.	001%	<0.001	0/
Nitrogen compounds (as N)	Max. 5	ppm	<0.001 <5 ppn	
Phosphate (PO ₄)	Max. 0.		9 X	
Heavy metals (as Pb)	Max. S		<0.001 %	
Iron (Fe)	Max, 0,	9 R ·	<5 ppn <0.001	
Calcium (Ca)	Max. 0.	01%	0.002 %	
Magnesium (Mg)	Max. 0.	005%	0.002 9	
Potassium (K)	Max. 0.		0.003 %	
Extraction-concentration suit	ability Passes	test	Passes	*
Appearance	Passes		Passes	
Identification	Passes	test	Passes	test
Solubility and foreing matter		test	Passes	: test
Retained on US Standard No.		h	0.1 %	
Retained on US Standard No.	60 sieve Min. 94	a/ ₀	97.3 %	
Through US Standard No. 60	sieve Max. 5%	46	2.5 %	
Through US Standard No. 100) sieve Max. 10	1%	0.1 %	
an second a second s	CON	MENTS	ಕ್ಷಿತ್ರಾಲೆಗೂ ಕಾರ್ಯಕ್ರಿ ಪ್ರದೇಶಕರ್ಷ ಪ್ರದೇಶಕ	
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		QC: Ph	C Irma Belma	res

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

Read. by R: 017/293 E3551

RE-02-01, Ed. 1

Hexanes (95% n-hexane) BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis





Material No.: 9262-03 Batch No.: 24C1862008 Manufactured Date: 2024-01-30 Expiration Date: 2025-04-30 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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive impurities (as Ethylene Dibromide) - Single impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 1 0	5
Residue after Evaporation	≤ 1.0 ppm	0.4 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

Recd by RP on 09/11/24 E 3192



100

Director Quality Operations, Bioscience Production

Hexanes (95% n-hexane) BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis

(Vavantor"



Material No.: 9262-03 Batch No.: 24C1862008 Manufactured Date: 2024-01-30 Expiration Date: 2025-04-30 Revision No.: 0

Certificate of Analysis

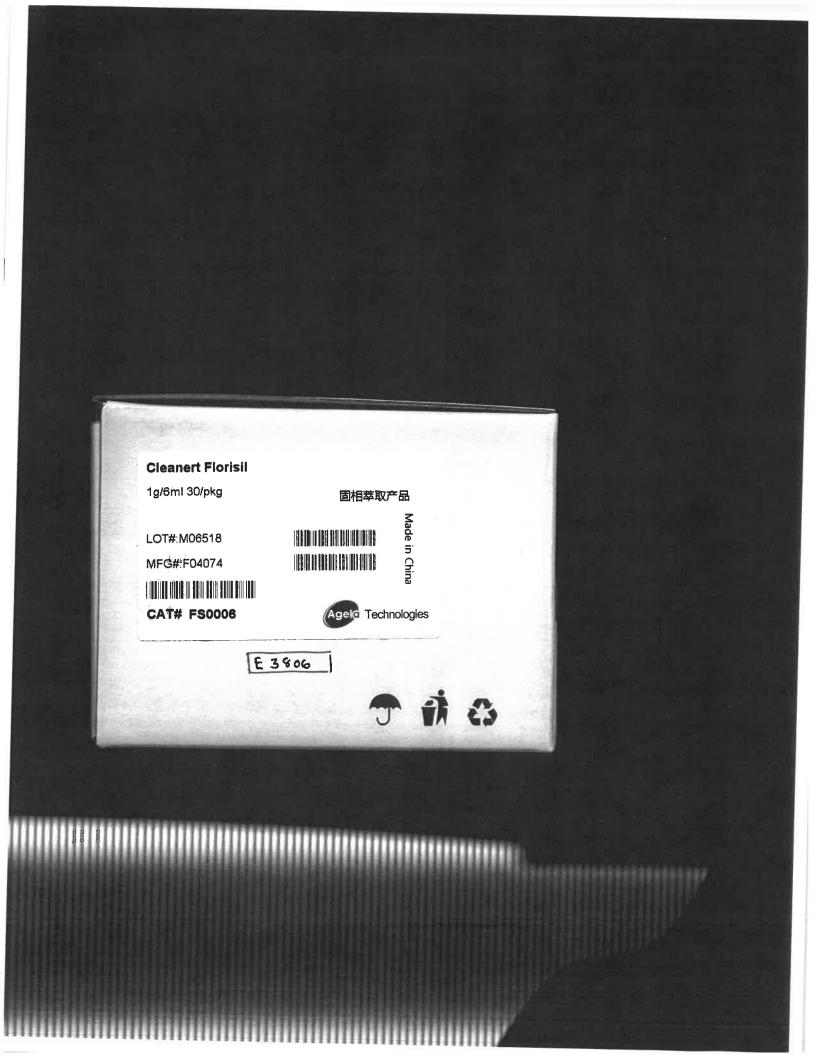
Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) – Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C $_6$ Isomers) (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	0.4 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

Recd. by RP on 9/25/24 E 3805





PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone

BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis

Avantor



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 ((CH3)2CO) (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 (H2O)	<= 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

Country of Origin: United States Packaging Site: Phillipsburg Mfg Ctr & DC

E3815

Alioak Jamie Croak Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials,LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087. U.S.A. Phone 610.386. 1700

Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis





Material No.: 9254-03 Batch No.: 24H2762008 Manufactured Date: 2024-04-18 Expiration Date:2027-04-18 **Revision No.: 0**

Certificate of Analysis

Test	Specification	Result
Assay ((CH3)2CO) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 (H2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak	<= 5	1
(ng/mL) ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 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

Recd. 51 RP on 12/5/24

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{l'Ioak Jamie Croak Director Quality Operations, Bioscience Production

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis





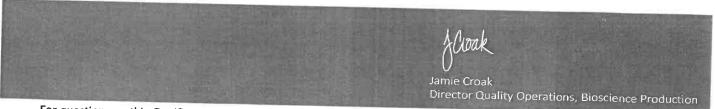
Material No.: 9254-03 Batch No.: 24H2762008 Manufactured Date: 2024-04-18 Expiration Date:2027-04-18 **Revision No.: 0**

Certificate of Analysis

Test	Specification	Result
Assay ((CH3)2CO) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 (H2O)	<= 0.5 %	
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<0.1 % 1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 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



For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Arrandan Daufannanan Masandala I I m

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





Material No.: 9262-03 Batch No.: 24G1962003 Manufactured Date: 2024-05-23 Expiration Date: 2025-08-22 Revision No.: 0

Certificate of Analysis

Test	C 10	
FID-Sensitive Immunity of a	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) ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak	≤ 10	1
	≤ 5	1
Assay (Total Saturated C₅ Isomers) (by GC, corrected for water) Assay (as n-Hexane) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Color (APHA)	≥ 95 %	98 %
Residue after Evaporation	≤ 10	5
ubstances Darkened by H2SO4	≤ 1.0 ppm	0.1 ppm
Vater (by KF, coulometric)	Passes Test	Passes Test
	≤ 0.05 %	< 0.01 %

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

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

Recd. by RP on 12/13/24 E3847



Certificate of Analysis ThermoFisher SCIENTIFIC

System

Certificate of Analysis

1 Reagent Lane	
Fair Lawn, NJ 07410	
201.796.7100 tel	Thermo Fisher Scientific's Quality System has been found to conform to Quality Management
201.796.1329 fax	Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

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

Catalog Number	H303	Quality Test / Release Date	11/07/2024			
Lot Number	243570					
Description	HEXANES - OPTIMA					
Country of Origin	United States	Suggested Retest Date	Nov/2029			
Chemical Origin	Organic - non animal					
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.					

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 60	69
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.9	>99.9
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.669
EVAPORATION RESIDUE	ppm	<= 1	<1
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	0.74
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.25	0.17
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.07	0.05
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.001
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<10
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.375 - 1.385	1.379
SUITABILITY FOR GC/MS		= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

Recd-by om 2/12/25 E387

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above. If there are any questions with this certificate, please call at (800) 227-6701. *Based on suggested storage condition. Methylene Chloride ULTRA RESI-ANALYZED For Organic Residue Analysis (dichloromethane)





Material No.: 9266-A4 Batch No.: 24K1762005 Manufactured Date: 2024-10-08 Expiration Date:2026-01-07 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	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	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

E 3878

XUUUUK Jamie Croak Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials,LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087. U.S. A. Phone 610.386. 1700



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



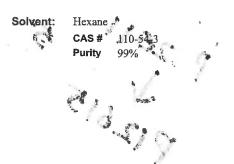
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ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

	This Refe	BORATORY USE ON rence Material is intended ative and/or quantitative de	for Laboratory Use Only	as a standard for
Catalog No. :	32021	Lot No.:	A0193299	- 026 Edu
Description :	Chlordane Standard			V V C)
	Chlordane Standard 1000µg	/mL, Hexane, 1mL/ampul		0,612
Container Size :	2 mL	Pkg Amt:	> 1 mL	Pla
Expiration Date :	April 30, 2029	Storage:	10°C or colder	
		Ship:	Ambient	- RMU13/202

CERTIFIED VALUES

Elution Order	Compound	ộCAS #	. 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	%	1,010.0 µg/mL	+/- 56.0475



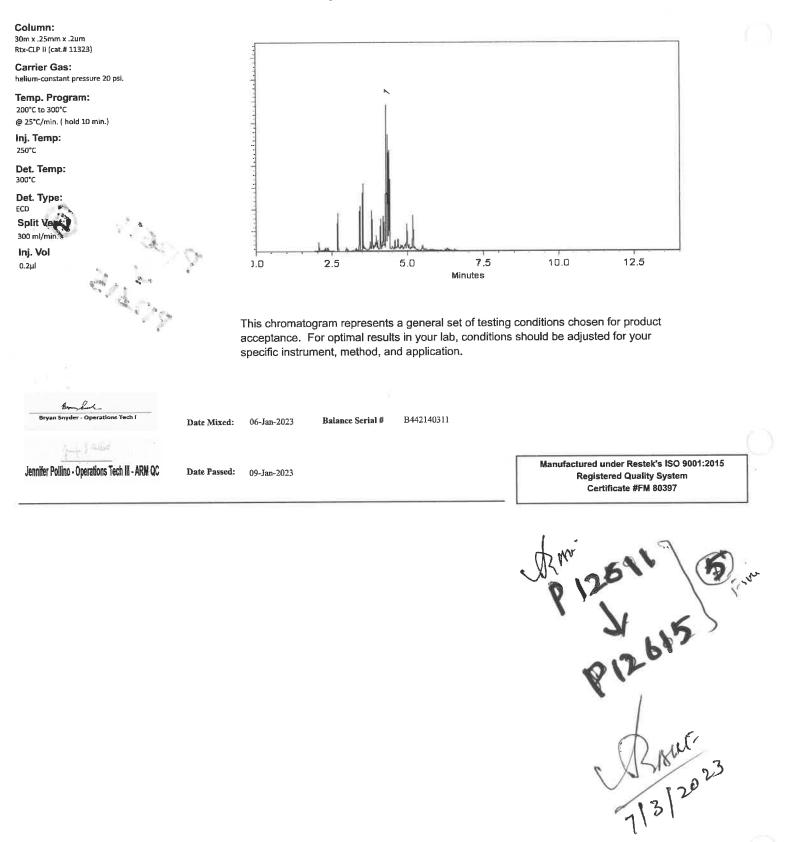
* Expanded Uncertainty displayed in same units as Grav. Conc.

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

01-Nov-2022 rev.



Quality Confirmation Test







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



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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. : Description :	32291 Organochlorine Pesticide Mix AB #1	Lot No.: <u>A0199099</u>	- P1302
-	Organochlorine Pesticide Mix AB #1 1mL/ampul	- P1301	
Container Size : Expiration Date :	2 mL June 30, 2027	Pkg Amt: > 1 mL Storage: 10°C or colder	- RAUE 9.2023
		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%	200.0 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%

P 13039 5 P13043 5 P13043 5 1226/23

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: ECD Split Vent: Split ratio 50:1 Inj. Vol 10 1µI Ö 20 30 Minutes

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.

1128360905

Gh Binally

Josh McCloskey - Operations Technician I

5 Rolling

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Jun-2023

19-Jun-2023

Balance Serial #

Date Mixed:

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

40





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



2ª

5

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. : Description :	32291 Organochlorine Pesticide Mix AB #1	Lot No.: 4	40199099	P1302
-	Organochlorine Pesticide Mix AB #1 1mL/ampul	200µg/mL, Hexand	e/Toluene(50:50),	P 1301
Container Size : Expiration Date :	2 mL June 30, 2027	Pkg Amt: _	> 1 mL 10°C or colder	Dult- 2023
	·	Ship: _	Ambient	XXA 20.

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
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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%

P 13039 5 P13043 5 P13043 5 1226/23

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: ECD Split Vent: Split ratio 50:1 Inj. Vol 10 1µI Ö 20 30 Minutes

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.

1128360905

Gh Binally

Josh McCloskey - Operations Technician I

5 Rolling

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Jun-2023

19-Jun-2023

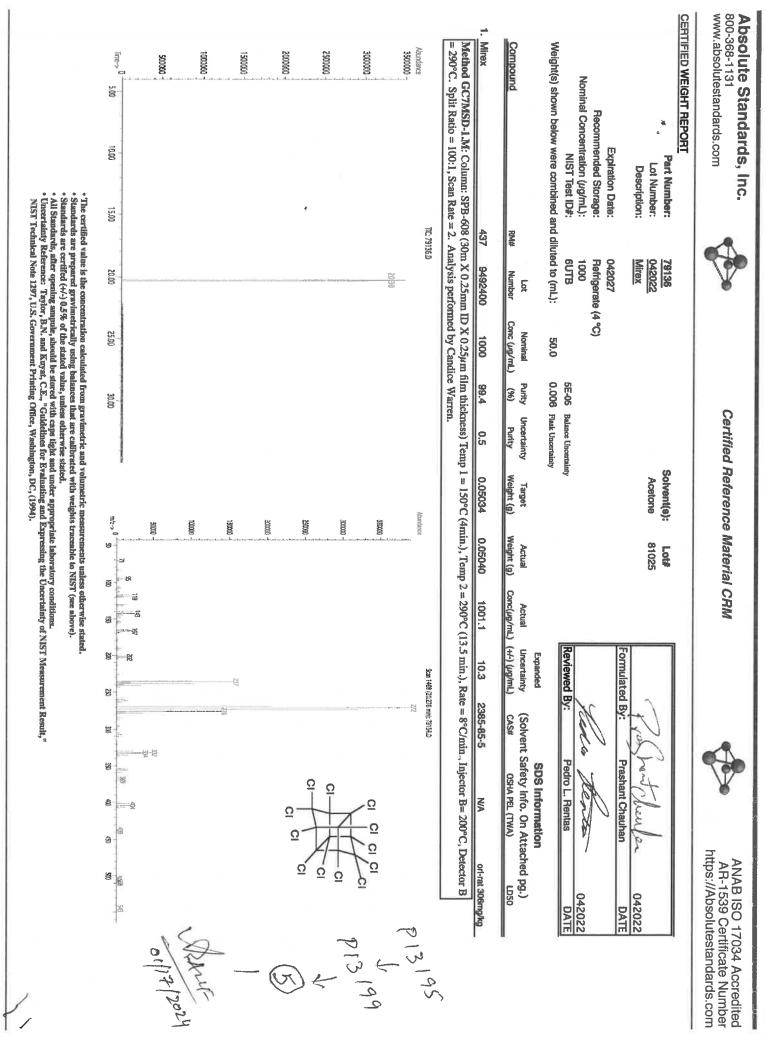
Balance Serial #

Date Mixed:

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

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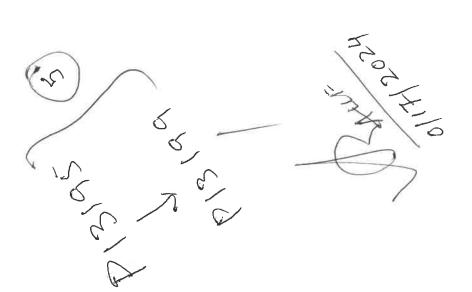


Part # 79136 Lot # 042022

1 of 1

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Absolute Standards, Inc. 800-368-1131 www.absolutestandards.com	лс.				Ŭ	srtified F	Referenc	Certified Reference Material CRM	al CRM				Ahttp	NAB ISO 170 R-1539 Cert Ss://Absolute:	ANAB ISO 17034 Accredited AR-1539 Certificate Number https://Absolutestandards.com
CERTIFIED WEIGHT REPORT Part Number: Lot Number: Description: Expiration Date: Recommended Stressor	T Part Number: Lot Number: Description: Expiration Date:	79136 102821 Mirex 102826	79136 102821 Mirex 102826	5			Solvent(s): Acetone	Lot# 81025		Formu	Formulated By:	HL BY		102821 DATE	
Nominal Concentration (µg/mL): 1000 NIST Test ID#: 6UTB Weight(s) shown below were combined and diluted to (mL):	ration (µg/mL): NIST Test ID#: vere combined and	diluted to (r	t n	50.0 Nominal	5E-05 Ba 0.006 Pa	Balance Uncertainty Flask Uncertainty I Incertainty	tty Tarret			Reviewed By Expanded		Pedro L. Rentas Pedro L. Rentas SDS Information	Market Contraction	102821 DATE	
<u>Compound</u> 1. Mirex	- 4	RM# Nun 437 949;	Number Co 9492400	Conc (µg/mL) 1000	1	Purity 0.5	Weight (g) 0.05034	Weight (g) 0.05039			3	OSHA PEL (TWA) N/A	(AWT)	LD50	
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 = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.	mn: SPB-608 Scan Rate = 2	8 (30m X 0. 2. Analysis	25mm ID 2 performed	X 0.25μm fi I by Candic	Im thickn : Warren.	ess) Temp	1 = 150°C ([,]	4min.), Tem	p 2 = 290°C	(13.5 min.), Rate = 8°C/mi	n., Injector B=	200°C, Dete	00°C, Detector B	
Abundance Abundance	Ĕ	TC: 79136.D					end X	Abundance		8	Scar 1468 (23,276 min); 73136.D]	
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00000022		gantarda ante e de seren en en en en					m	30000				U U	¥.		
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0000001		tang kang penuhagi di kenang penuhagi di kenang kenang tang di kenang kenang tang di kenang kenang tang di kena					pa 200	1 0000 0000 00000			. Knowe was a started				25
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	 The certi Standarc Standard All Stand Uncertain 	• The certified value is the concentration calculated from gravimetric • Standards are prepared gravimetrically using balances that are call • Standards are certified $(+i)$ 0.5% of the stated value, unless otherwis • All Standards, after opening ampule, should be stored with caps tig • Uncertainty Reference: Taylor, B.N. and Kuval, C.E., "Guldefines	the concentra ed gravimetri I (+/-) 0.5% o pening ampul :: Tavlor, B.J	tion calculate ically using b f the stated vi le, should be i N. and Kuvat	d from gra llances that the, unless tored with C.E., "Gu"	vimetric and volu t are calibrated w otherwise stated caps tight and un idelines for Evalu	volumetric me ed with weight: tted. d under appro valuatine and	and volumetric measurements unless otherwise stated. In ated with weights traceable to NIST (see above). Se stated. Int and under appropriate laboratory conditions.	iless otherwise VIST (see abov ory conditions.	stated. re). v NIST Mea	 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. Mismaturds, after opening ampule, stored with caps tight and under appropriate laboratory conditions. Uncertainty Reference: Taylor, BA, and Kurst, C.E., "Guidefines for hand and reader the function of NIST Mesurement Result". 				
	NIST T ₆	schnical Note	1297, US.G	overnment Pr	inting Office	ce, Washingto	n, DC, (1994).								

Lot # 102821 Part # 79136

1 of 1



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



1 33



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. 603 3 Catalog No. : 32021 Lot No.: A0197993 Chlordane Standard **Description:** P12605) Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul **Container Size :** 2 mL Pkg Amt: > 1 mL **Expiration Date ;** August 31, 2029 10°C or colder Storage: Ship: Ambient

CERTIFIED VALUES

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

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

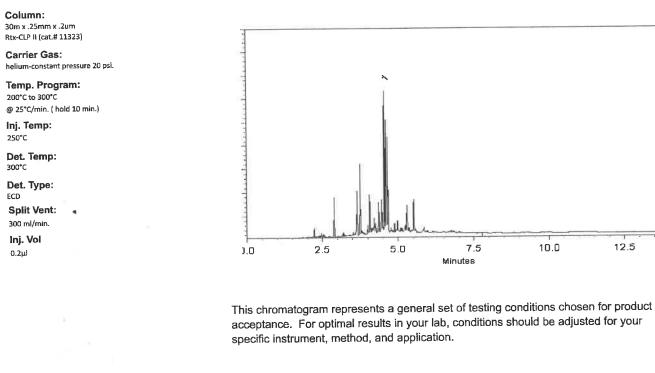
Solvent: Hexane CAS # 110-54-3

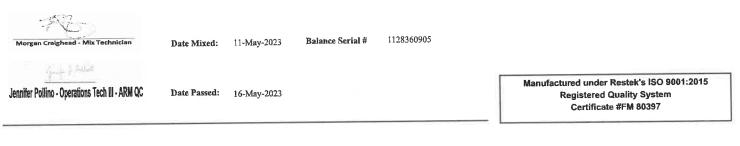
Purity 99%

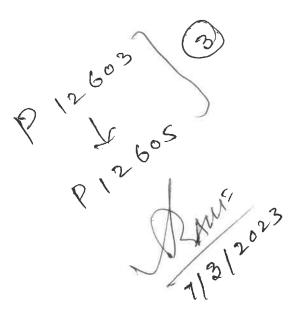
Tech Tips:

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











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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE. This Reference Material is intended for Laboratory Use Only as a standard for ら the qualitative and/or quantitative determination of the analyte(s) listed. P 13037 32291 Catalog No. : Lot No.: A0200423 **Description :** Organochlorine Pesticide Mix AB #1 Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul **Container Size :** 2 mL Pkg Amt: > 1 mL **Expiration Date :** July 31, 2027 Storage: 10°C or colder 6

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	230410ЛСМА	98%	201.9 μg/mL	+/- 9.0575



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

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

Solvent: Hexane/Toluene (50:50) CAS # 110-54-3/108-88-3 Purity 99%

Column:

P13034 5 P130 4 38 5 P130 1 Arut 126/2023

> Registered Quality System Certificate #FM 80397

Quality Confirmation Test

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: ECD Split Vent: Split ratio 50:1 Inj. Vol 1µI D 10 20 30 40 Minutes 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. Samuel Moodler m Moodler - Operations Tech I B442140311 Date Mixed: 31-Jul-2023 **Balance Serial #** Manufactured under Restek's ISO 9001:2015 Jennifer Pollino - Operations Tech III - ARM QC Date Passed: 03-Aug-2023



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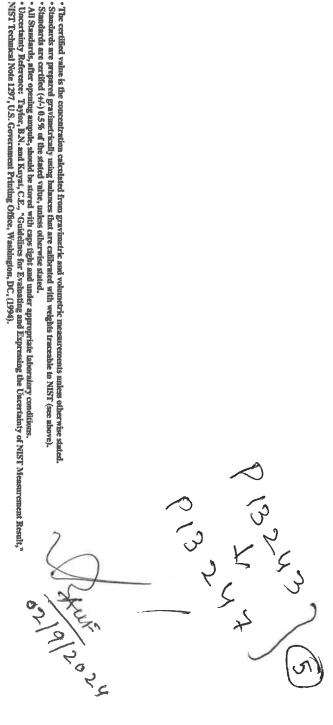
1 of 1

800-368-1131 www.absolutestandards.com Absolute Standards, Inc.

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT Part Number: Lot Number: Description: Expiration Date: Recommended Storage: Nominal Concentration (ug/mL): NIST Test IDF:		19161 013124 CLP Pesticides & 9 components 013129 Refrigerate (4 °C) Varied 6UTB	des & PCBy ants (4 °C)	s Resolut	19161 013124 CLP Pesticides & PCB's Resolution Check Standard 9 components Solvent(s): 9 components Hexane 9 components Hexane 9 components Toluene 2 components Solvent(s): 9 components Hexane 2 components Solvent(s): 9 components Solvent(s): 9 components Solvent(s):	ndard Lot# 273615 28508	(50%	5 S		Formulated By:	Formulated By:
ion Date: Storage: (µg/mL):		9 compone 013129 Refrigerate Varied	(4 °C)		Solvent(s): Hexane Toluene	Lot# 273615 28508	(50%) (50%)		Formulated	Formulated By:	al a
Volume(s) shown below were combined and diluted to (mL):	and dilutec	GUTB to (mL);	100.0	5E-05	Balance Uncertainty Flask Uncertainty				Reviewed B	Reviewed By:	Reviewed By: Pedro L. Rentas
	Part	Lot	Dil.	Initial	Uncertainty	Initial	Final	c	Expanded Uncertainty		Expanded SDS Information Incertainty (Solvent Safety Info. On Attached pg.)
	Number	Number	Factor	Vol. (mL)	Vol. (mL) Pipette (mL)	Conc.(ug/mL)	Conc.(ug/mL) Conc.(ug/mL)		(+/-) µg/mL	(+/-) µg/mL CAS#	
trans-Chlordane	19361	013124	0.010	1.00	0.004	101.3	1.0		0.02		
4,4-DDE	19361 19361	013124	0.010	1.00	0.004	101.3 201.6	2.0		0.02	0.02 959-98-8	
Dieldrin	19361	013124	0.010	1.00	0,004	202.8	2.0		0.03		60-57-1 0.25mg/m3 (skin)
Endosulfan sulfate	19361	013124	0.010	1.00	0.004	204.2	2.0		0.03	0.03 1031-07-8	1031-07-8 N/A
Endrin ketone	19361	013124	0.010	1.00	0.004	202.6	2.0		0.03	0.03 53494-70-5	
	10001	212121	1112								



10mg/m3 NA ¥ NNA R orl-rat 6000mg/kg ON-Lat I Ruding/KB NIA NA NA

Endrin ketone
 4,4'-Methoxychlor

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013124

0.010 0.010

0.010

1.00 1.0

0.004 0.004

19361 19361

013124 013124

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10.0 2.0

0.03 0.03 0.09

2051-24-3 877-09-8

72-43-5

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



110 Benner Circle Bellefonte, PA 16823-8812

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

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SO/IEC 17025 Accordite Testing Laboratory Certificate #3222.02

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 32000 Lot No.: A0206810 Catalog No. : **Description:** Pesticide Surrogate Mix Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul > 1 mL **Container Size :** 2 mL Pkg Amt: **Expiration Date :** April 30, 2030 10°C or colder Storage: Handling: Contains PCBs - sonicate prior to Ship: Ambient use.

CERTIFIED VALUES

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

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

Solvent: Acetone CAS # 67-64-1 Purity 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 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) **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



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

Jennifer Pollino - Operations Tech III - ARM QC

Gunifor & Adding

1μl

Date Mixed:

Date Passed:

22-Jan-2024

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24-Jan-2024

1128360905 Balance Serial #

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

13348 0 P13357 1/5Aut 25/2025



110 Benner Circle Bellefonte, PA 16823-8812

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

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CERTIFIED REFERENCE MATERIAL

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SO/IEC 17025 Accordite Testing Laboratory Certificate #3222.02

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 32000 Lot No.: A0206810 Catalog No. : **Description:** Pesticide Surrogate Mix Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul > 1 mL **Container Size :** 2 mL Pkg Amt: **Expiration Date :** April 30, 2030 10°C or colder Storage: Handling: Contains PCBs - sonicate prior to Ship: Ambient use.

CERTIFIED VALUES

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

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

Solvent: Acetone CAS # 67-64-1 Purity 99%

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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

Jennifer Pollino - Operations Tech III - ARM QC

Gunifor & Adding

1μl

Date Mixed:

Date Passed:

22-Jan-2024

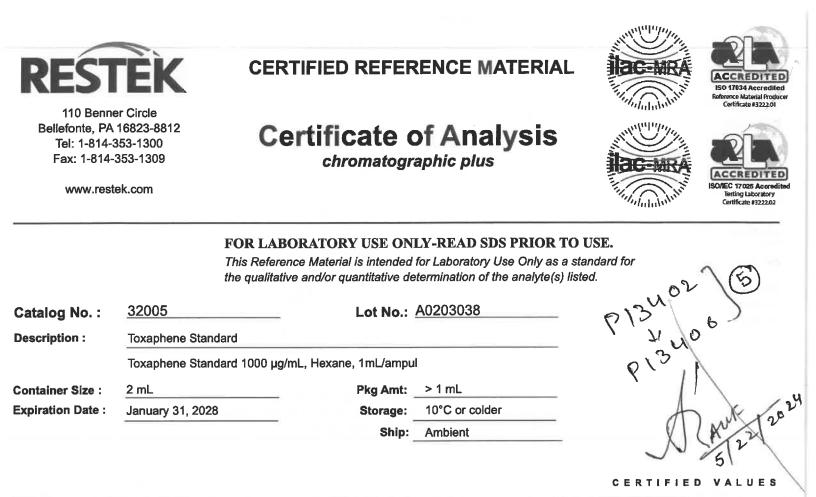
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24-Jan-2024

1128360905 Balance Serial #

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

13348 0 P13357 1/5Aut 25/2025



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

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

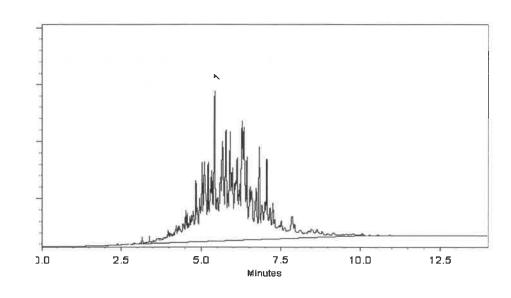
Solvent: Hexane CAS # 110-54-3 Purity 99%

Column: 30m x .25mm x .2um Rtx-CLP II (cat.# 11323) **Carrier Gas:** helium-constant pressure 20 psi. Temp. Program: 200°C to 300°C @ 25°C/min. (hold 10 min.) Inj. Temp: 250°C Det. Temp: 300°C

ECD

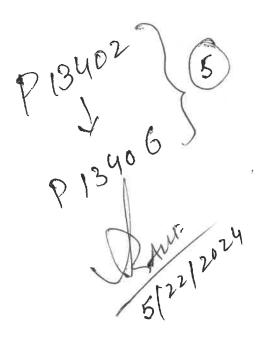
300 ml/min.

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.

Balance Serial # 1128353505 10-Oct-2023 Dakota Parson - Operations Technician I **Date Mixed:** I pundo à Pollinit Manufactured under Restek's ISO 9001:2015 Jennifer Pollino - Operations Tech III - ARM QC Date Passed: 16-Oct-2023 **Registered Quality System** Certificate #FM 80397



Det. Type:

Split Vent:

Inj. Vol



Bellefonte, PA 16823-8812

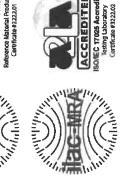
Fax: 1-814-353-1309 Tel: 1-814-353-1300

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

s Surrogate Mix s Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul 31, 2030 Storage: 10°C or colder PCBs - sonicate prior to Ship: Ambient	32000	0		A0214405	,	
s Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul s Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul 31, 2030 Storage: 10°C or colder PCBs - sonicate prior to Ship: Ambient	5		FOI NO.	00441200	5 240.0	
s Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul Pkg Amt: > 1 mL 31, 2030 Storage: 10°C or colder PCBs - sonicate prior to Ship: Ambient	Pest	icide Surrogate Mix			-0+611	
Pkg Amt: > 1 mL 31, 2030 Storage: 10°C or colder PCBs - sonicate prior to Ship: Ambient	Pes	ticide Surrogate Mix 200 µg/mL, A	cetone, 1mL/am	bul	4	
31, 2030 Storage: 10°C or colder PCBs - sonicate prior to Ship: Ambient	2 2 2	2 mL	Pkg Amt:	> 1 mL		
sonicate prior to	Ö	ober 31, 2030	Storage:	10°C or colder	Lateld	
	Cont use.	<u> Contains PCBs - sonicate prior to use.</u>	Ship:	Ambient		

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

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

Acetone Solvent:

67-64-1 CAS# Purity

%66

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)

Carrier Gas: hellum-constant pressure 20 psi.

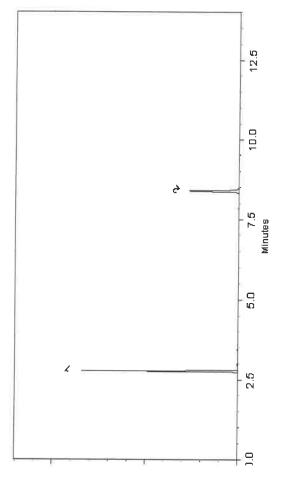
Temp. Program: 200°C to 300°C @ 25°C/min. (hold 10 min.) **Inj. Temp**:

250°C

Det. Temp: 300°C

Det. Type: ECD Split Vent: 10 ml/min.

10 ml/min. **Inj. Vol** 1µl



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

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Aaron Enyart - Operations Tech | Date M

Date Mixed: 29-Jul-2024 Balance Serial #

B345965662

Grade & Pather

Jennifer Pollino - Operations Tech III - ARM QC Date Passed: 01-Aug-2024

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



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ACCREDITED SO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

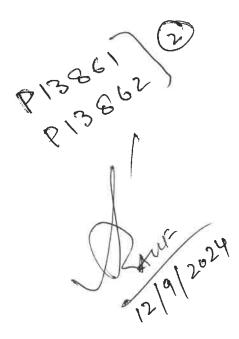
Catalog No. :	32005	Lot No.:	<u>A0210240</u>
Description :	Toxaphene Standard		
	Toxaphene Standard 1000 µg/r	mL, Hexane, 1mL/ampu	I
Container Size :	2 mL	Pkg Amt:	> 1 mL
Expiration Date :	July 31, 2028	Storage:	10°C or colder
		Ship:	Ambient

CERTIFIED VALUES

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

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

Solvent: Hexane CAS # 110-54-3 Purity 99%



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

Carrier Gas: helium-constant pressure 20 psi.

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

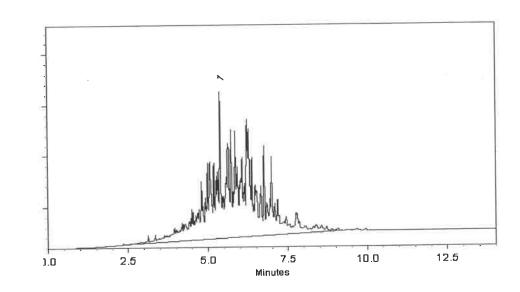
Inj. Temp: 250°C

Det. Temp: 300°C

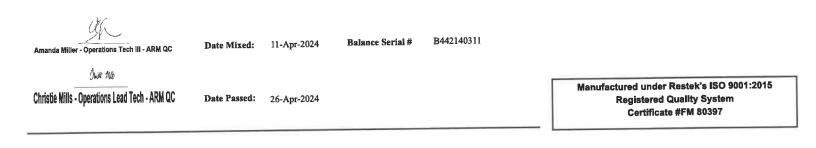
Det. Type: ECD

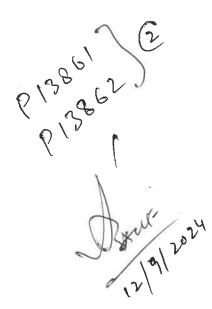
Split Vent: 300 ml/min.

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.





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	solutes
Absolute 300-368-1131	www.absolutestandards.com





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1 of 2

Lot # 112018 Part # 72072

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ISO 17034 Accredited Scopes: http://AbsoluteStandards.com

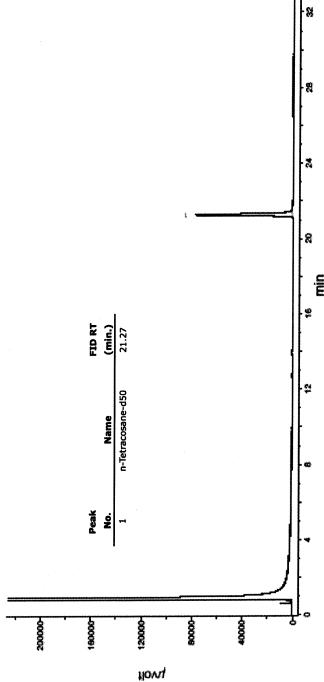
Run 40, "P72072 L112018 [1000µg/mL in MeCl2]"

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

Flow rates; Total Flow = 300 m/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL, Hydrogen (detector) = 30 mL, Air (detector) =360 mL GC4-M1 Analysis by Melissa Stonier Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5um Film Thickness

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 ut., Range = 3



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