

Prep Standard - Chemical Standard Summary

Order ID: 03645

Test: PCB Group1

Prepbatch ID: PB154254,PB154263,
Sequence ID/Qc Batch ID: PQ071823,

Standard ID:

EP2316, EP2350, EP2361, PP22064, PP22138, PP22206, PP22207, PP22208, PP22209, PP22210, PP22211, PP22212, PP22213, PP22214, PP22215, PP22216, PP22216, PP22218, PP22219, PP22220, PP22221, PP22222, PP22223, PP22224, PP22225, PP22226, PP22227, PP22228, PP22229, PP22230, PP22231, PP22232, PP22233, PP22234, PP22235, PP22236, PP22236, PP22239, PP22239, PP22239, PP22234, PP22234, PP22234, PP22234, PP22234, PP22234, PP22234, PP22235, PP22236, PP22

Chemical ID:

E2865,E3412,E3465,E3519,E3520,E3534,E3536,E3543,M5211,P10102,P10155,P10480,P10495,P10497,P10792,P110499,P11054,P11373,P11494,P11504,P11509,P11516,P11518,P11578,P11584,P11594,P11739,P12202,

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Extractions STANDARD PREPARATION LOG

Recipe ID 314	NAME 1.1 H2SO4 SOLN	NO. EP2316	Prep Date 03/29/2023	Prepared By Rajesh Parikh	<u>ScaleID</u> None	PipetteID None	Supervised By RUPESHKUMAR SHAH 03/29/2023
FROM	1000.00000ml of M5211 = Final Qua	ntity: 2000.	000 ml				

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
230	1:1ACETONE/HEXANE		06/17/2023		Rajesh Parikh	None	None	RUPESHKUMAR SHAH 06/17/2023

FROM 8000.0000ml of E3519 + 8000.0000ml of E3520 = Final Quantity: 8000.000 ml

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Extractions STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By		
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	RUPESHKUMAR		
3923	Baked Sodium Sulfate	EP2361	07/17/2023	10/23/2023	Rajesh Parikh	Extraction_SC	None	SHAH		
						ALE_2		07/17/2023		
FROM	FROM 4000.0000gram of E3412 = Final Quantity: 4000.000 gram (EX-SC-2)									

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Ankita Jodhani
3857	5000 PPB PCB SPIKE SOLUTION 2ND SOURCE	PP22064	05/26/2023	11/10/2023	Abdul Mirza	None	None	05/26/2023

FROM 0.50000ml of P11373 + 99.50000ml of E3465 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 465	NAME 200 PPB Pest/PCB Surrogate Spike	NO. PP22138	Prep Date 06/20/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 06/20/2023
FROM	1.00000ml of P10792 + 999.00000m	l of E3519	= Final Quanti	ity: 1000.000 r	nl			

Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
84	Pest/PCB Surrogate Stock 20 PPM	PP22206	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 1.00000ml of P11739 + 9.00000ml of E3520 = Final Quantity: 10.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 202	NAME AR1660 1000/100 ppb working solution 1st source	NO. PP22207	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	ScaleID None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.10000ml of P10480 + 99.40000ml	of E3520 + (0.50000ml of	PP22206 = Fir	nal Quantity: 100	0.000 ml		

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
203	AR1660 750 PPB STD	PP22208	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 0.25000ml of E3520 + 0.75000ml of PP22207 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID NAME 204 AR1660 500 PPB STD	NO. PP22209	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	ScaleID None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM 0.50000ml of E3520 + 0.50000ml	I of PP22207 =	I Final Quantit	y: 1.000 ml				0110012020

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel
205	AR1660 250 PPB STD	PP22210	06/30/2023	12/17/2023	Ankita Jodhani	None	None	Ü
								07/05/2023

FROM 0.75000ml of E3520 + 0.25000ml of PP22207 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 206	NAME AR1660 50 PPB STD	NO. PP22211	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.90000ml of E3520 + 0.10000ml of l	PP22209 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
213	AR1221 1000 PPB WORKING SOLUTION	PP22212	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 0.10000ml of P11578 + 99.40000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1079	NAME AR1221 750 PPB STD	NO. PP22213	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.25000ml of E3520 + 0.75000ml of I	PP22212 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Yogesh Patel
222	AR1221 500 PPB STD	PP22214	06/30/2023	12/17/2023	Ankita Jodhani	None	None	rogesii ratei
								07/05/2023

FROM 0.50000ml of E3520 + 0.50000ml of PP22212 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 1080	NAME AR1221 250 PPB STD	NO. PP22215	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.75000ml of E3520 + 0.25000ml of l	PP22212 =	Final Quantit	y: 1.000 ml				

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel
1081	AR1221 50 PPB STD	PP22216	06/30/2023	12/17/2023	Ankita Jodhani	None	None	Ü
								07/05/2023

FROM 0.90000ml of E3520 + 0.10000ml of PP22214 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 214	NAME AR1232 1000 PPB WORKING	NO. PP22217	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	ScaleID None	PipettelD None	Supervised By Yogesh Patel
	SOLUTION							07/05/2023
FROM 0.10000ml of P11584 + 99.40000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml								

L									
	Recipe				Expiration	Prepared			Supervised By
ľ	<u>ID</u>	<u>NAME</u>	NO.	Prep Date	Date	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel
	1063	AR1232 750 PPB STD	PP22218	06/30/2023	12/17/2023	Ankita Jodhani	None	None	Ü
									07/05/2023

FROM 0.25000ml of E3520 + 0.75000ml of PP22217 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 223	NAME AR1232 500 PPB STD	NO. PP22219	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of	PP22217 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	<u>PipetteID</u>	Supervised By
1064	AR1232 250 PPB STD		06/30/2023		Ankita Jodhani	None	None	Yogesh Patel
								07/05/2023

FROM 0.75000ml of E3520 + 0.25000ml of PP22217 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1065	NAME AR1232 50 PPB STD	NO. PP22221	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.90000ml of E3520 + 0.10000ml of l	PP22219 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
215	AR1242 1000 PPB WORKING STD	PP22222	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 0.10000ml of P11049 + 99.40000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1067	NAME AR1242 750 PPB STD	NO. PP22223	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.25000ml of E3520 + 0.75000ml of	 PP22222	Final Quantit	y: 1.000 ml				0110012023

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
224	AR1242 500 PPB STD	PP22224	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 0.50000ml of E3520 + 0.50000ml of PP22222 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 1068	NAME AR1242 250 PPB STD	NO. PP22225	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.75000ml of E3520 + 0.25000ml of l	PP22222 =	Final Quantity	y: 1.000 ml				

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
1069	AR1242 50 PPB STD	<u>PP22226</u>	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 0.90000ml of E3520 + 0.10000ml of PP22224 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 216	NAME AR1248 1000 PPB WORKING STD	NO. PP22227	Prep Date 06/30/2023		Prepared By Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM 0.10000ml of P11054 + 99.40000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml								

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel
1075	AR1248 750 PPB STD	PP22228	06/30/2023	12/17/2023	Ankita Jodhani	None	None	
								07/05/2023

FROM 0.25000ml of E3520 + 0.75000ml of PP22227 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 225	NAME AR1248 500 PPB STD	NO. PP22229	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of	PP22227 =	Final Quantit	y: 1.000 ml				3.7.5.Z.D.Z.D

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1076	AR1248 250 PPB STD	PP22230	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 0.75000ml of E3520 + 0.25000ml of PP22227 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1077	NAME AR1248 50 PPB STD	NO. PP22231	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.90000ml of E3520 + 0.10000ml of l	PP22229 =	Final Quantity	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
217	AR1254 1000 PPB WORKING STD	PP22232	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 0.10000ml of P10495 + 99.40000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1071	NAME AR1254 750 PPB STD	NO. PP22233	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.25000ml of E3520 + 0.75000ml of I	PP22232 =	Final Quantity	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
226	AR1254 500 PPB STD	PP22234	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 0.50000ml of E3520 + 0.50000ml of PP22232 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1072	NAME AR1254 250 PPB STD	NO. PP22235	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.75000ml of E3520 + 0.25000ml of I	PP22232 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1073	AR1254 50 PPB STD	PP22236	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 0.90000ml of E3520 + 0.10000ml of PP22234 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1529	NAME AR1262 1000 PPB Working Solution	NO. PP22237	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.10000ml of P10497 + 99.40000ml	of E3520 + (0.50000ml of	PP22206 = Fir	I lal Quantity: 100	0.000 ml		0170072020

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3753	AR1262 750 PPB STD	PP22238	06/30/2023	12/17/2023	Ankita Jodhani	None	None	Ü
								07/05/2023

FROM 0.25000ml of E3520 + 0.75000ml of PP22237 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 1530	NAME AR1262 500 PPB STD	NO. PP22239	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of	PP22237 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3754	AR1262 250 PPB STD	<u>PP22240</u>	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 0.75000ml of E3520 + 0.25000ml of PP22237 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 3755	NAME AR1262 50 PPB STD	NO. PP22241	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.90000ml of E3520 + 0.10000ml of l	PP22239 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1532	AR1268 1000 PPB Working Solution	PP22242	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 0.10000ml of P11594 + 99.40000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 3820	NAME AR1268 750 PPB STD	NO. PP22243	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.25000ml of E3520 + 0.75000ml of I	PP22242 =	Final Quantit	y: 1.000 ml				

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel
1533	AR1268 500 PPB STD	PP22244	06/30/2023	12/17/2023	Ankita Jodhani	None	None	-
								07/05/2023

FROM 0.50000ml of E3520 + 0.50000ml of PP22242 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 3821	NAME AR1268 250 PPB STD	NO. PP22245	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.75000ml of E3520 + 0.25000ml of l	PP22242 =	Final Quantity	y: 1.000 ml				

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3822	AR1268 50 PPB STD	PP22246	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 0.90000ml of E3520 + 0.10000ml of PP22244 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 404	NAME AR1660 100 PPM Stock Solution 2nd Source	NO. PP22247	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	1.00000ml of P12202 + 9.00000ml of	f E3534 = F	inal Quantity:	10.000 ml				

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel
405	AR1660 1000/100 PPB ICV STD	PP22248	06/30/2023	12/17/2023	Ankita Jodhani	None	None	Ü
								07/05/2023

FROM 49.25000ml of E3520 + 0.25000ml of PP22206 + 0.50000ml of PP22247 = Final Quantity: 50.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 406	NAME AR1660 500 PPB ICV	NO. PP22249	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of l	PP22248 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3789	AR1221 1000 PPB WORKING SOL.2ND SOURCE(AGILENT)	PP22250	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 1.00000ml of P11494 + 98.50000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 3790	NAME AR1221 500 PPB ICV(AGILENT)	NO. PP22251	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of l	PP22250 =	Final Quantit	y: 1.000 ml	<u>'</u>			

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1887	AR1232 1000 PPB Working Sol. 2nd Source	PP22252	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 1.00000ml of P10102 + 98.50000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1888	NAME AR1232 500 PPB ICV	NO. PP22253	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	ScaleID None	PipettelD None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of I	PP22252 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1889	AR1242 1000 PPB Working Sol. 2nd Source	PP22254	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 1.00000ml of P11504 + 98.50000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1891	NAME AR1242 500 PPB ICV	NO. PP22255	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of l	PP22254 =	Final Quantity	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1890	AR1248 1000 PPB Working Sol. 2nd Source	PP22256	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 1.00000ml of P11509 + 98.50000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1892	NAME AR1248 500 PPB ICV	NO. PP22257	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of l	PP22256 =	Final Quantity	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1893	AR1254 1000 PPB Working Sol. 2nd Source	PP22258	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 1.00000ml of P11516 + 98.50000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1894	NAME AR1254 500 PPB ICV	NO. PP22259	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of I	PP22258 =	Final Quantit	y: 1.000 ml				

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3757	AR1262 1000 PPB Working Solution second source	PP22260	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 1.00000ml of P10155 + 98.50000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 3758	NAME AR1262 500 PPB STD ICV	NO. PP22261	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of I	PP22260 =	Final Quantity	y: 1.000 ml	,			

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3817	AR1268 1000 ppb Working Soln. 2nd source	PP22262	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023

FROM 1.00000ml of P11518 + 98.50000ml of E3520 + 0.50000ml of PP22206 = Final Quantity: 100.000 ml

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 3823	NAME AR1268 500 PPB STD ICV	NO. PP22263	Prep Date 06/30/2023	Expiration Date 12/17/2023	<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of	I PP22262 =	Final Quantit	y: 1.000 ml				



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865
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	139404	10/23/2023	10/18/2022 / Rajesh	10/13/2022 / Rajesh	E3412
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	22J2461015	11/30/2023	02/21/2023 / Rajesh	02/15/2023 / Rajesh	E3465
Cumplier			Expiration	Date Opened /	Received Date /	Chemtech
Supplier	ItemCode / ItemName	Lot #	Date	Opened By	Received By	Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	Lot # 22E1562001	-	1		
	BA-9254-03 / Acetone,		Date	Opened By 06/17/2023 /	Received By 06/15/2023 /	Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	22E1562001	Date 12/16/2023 Expiration	Opened By 06/17/2023 / Rajesh Date Opened /	Received By 06/15/2023 / Rajesh Received Date /	Lot # E3519 Chemtech
Seidler Chemical Supplier	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) ItemCode / ItemName BA-9262-03 / Hexane,	22E1562001	Date 12/16/2023 Expiration Date	Opened By 06/17/2023 / Rajesh Date Opened / Opened By 06/17/2023 /	Received By 06/15/2023 / Rajesh Received Date / Received By 06/15/2023 /	Lot # E3519 Chemtech Lot #



CHEMICAL RECEIPT LOG BOOK

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)	23C2462011	01/13/2024	07/13/2023 / Rajesh	07/05/2023 / Rajesh	E3536
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	23F1262016	01/12/2024	07/12/2023 / Rajesh	07/12/2023 / Rajesh	E3543
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	22D0862014	01/20/2025	08/22/2022 /	04/26/2022 / mohan	M5211
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-302-1 / Aroclor 1232	CF-2197A	12/30/2023	06/30/2023 / Ankita	12/03/2020 / Abdul	P10102
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Supplier Agilent Technologies	ItemCode / ItemName PP-372-1 / Aroclor 1262	Lot # 0006499800		-		
Agilent		1	Date	Opened By 06/30/2023 /	Received By 01/12/2021 /	Lot #



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32011 / PCB Mix, Aroclor 1254, 1000ug/mL, Hexane, 1mL/ampul	A0160220	12/30/2023	06/30/2023 / Ankita	03/19/2021 / Abdul	P10495
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32409 / PCB Stock Solution, Aroclor 1262 Std, 1mL, Hexane	A0167722	12/30/2023	06/30/2023 / Ankita	03/19/2021 / Ankita	P10497
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	A0172332	12/20/2023	06/20/2023 / Ankita	06/17/2021 / dhaval	P10792
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32009 / PCB Mix, Aroclor 1242, 1000ug/mL, Hexane,	A0167551	12/30/2023	06/30/2023 / Ankita	09/03/2021 / Abdul	P11049
	1mL/ampul					
Supplier	1mL/ampul ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Supplier Restek		Lot # A0162497		-		
	ItemCode / ItemName 32010 / PCB Mix, Aroclor 1248, 1000ug/mL, Hexane,		Date	Opened By 06/30/2023 /	Received By 09/03/2021 /	Lot #



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-292-1 / Aroclor 1221	0006535333	12/30/2023	06/30/2023 / Ankita	02/21/2022 / Ankita	P11494
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-312-1 / Aroclor 1242	0006665550	12/30/2023	06/30/2023 / Ankita	02/21/2022 / Ankita	P11504
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-342-1 / Aroclor 1248	0006626997	12/30/2023	06/30/2023 / Ankita	02/21/2022 / Ankita	P11509
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-352-1 / Aroclor 1254	CS-2321	12/30/2023	06/30/2023 / Ankita	02/21/2022 / Ankita	P11516
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-382-1 / Aroclor 1268	0006587800	12/30/2023	06/30/2023 / Ankita	02/21/2022 / Ankita	P11518
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32007 / PCB Mix, Aroclor 1221, 1000ug/mL, Hexane,	A0175456	12/30/2023	06/30/2023 / Ankita	03/18/2022 / Abdul	P11578



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32008 / PCB Mix, Aroclor 1232, 1000ug/mL, Hexane, 1mL/ampul	A0173309	12/30/2023	06/30/2023 / Ankita	03/18/2022 / Abdul	P11584
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32410 / PCB Stock Solution, Aroclor 1268 Std, 1mL, Hexane	A0181782	12/30/2023	06/30/2023 / Ankita	03/18/2022 / Abdul	P11594
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	A0179404	12/30/2023	06/30/2023 / Ankita	05/27/2022 / Sohil	P11739
			Expiration	Date Opened /	Received Date /	Chemtech
Supplier	ItemCode / ItemName	Lot #	Date	Opened By	Received By	Lot #
Absolute Standards, Inc.	20064 / Aroclor 1016/1260	033121	12/30/2023	06/30/2023 / Ankita	11/16/2022 / Ankita	P12202

https://Absolutestandards.com

Certified Reference Material CRM





Absolute Standards, Inc.

800-368-1131

www.absolutestandards.com

CERTIFIED WEIGHT REPORT

CLP PCB'S - Aroclor Mix 033121 Description: Part Number: Lot Number:

233256

Hexane

Lot#

Solvent(s):

Aroclors 1016 & 1260 Ambient (20 °C) 033131 Nominal Concentration (µg/mL): Expiration Date: Recommended Storage:

5E-05 Balance Uncertainty 200.1 **6UTB** 000

NIST Test ID#:

DATE 033121 033121 Prashant Chauhan 33 Pedro L. Rentas 3 Formulated By Reviewed By

(Solvent Safety Info. On Attached pg.) SDS Information CAS# Uncertainty Expanded Actual Weight(g) Actual Weight(g) Target 0.058 Flask Uncertainty Uncertainty Purity Purity £ Conc (ug/mL) Nominal Weight(s) shown below were combined and diluted to (mL): Number ĕ ₽#

orl-rat 1315mg/kg OSHA PEL (TWA) 0.5mg/m3 ≨ 11096-82-5 12674-11-2 Conc (ug/mL) (++-) (ug/mL) 4. 4 1001.4 10001 0.20025 0.20035 0.20007 0.20007 0.0 5 |8 000 1000 020491JC 020491JC 15 2 1. Aroclor 1016 2. Aroclor 1260 Compound

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 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).

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Comments

GC3-Mt Analysis by Melissa Storier

GC3-Mt Analysis by Melissa Storier

Column ID SPB-608 30 meter X 0.53mm X5µm film thickness

Flow rates: Helium (carrier) = 5mL/min. Helium (make-up) = 25mL/min

Hydogen (make-up) = 30mL/min. Air (make-up) = 350mL/min

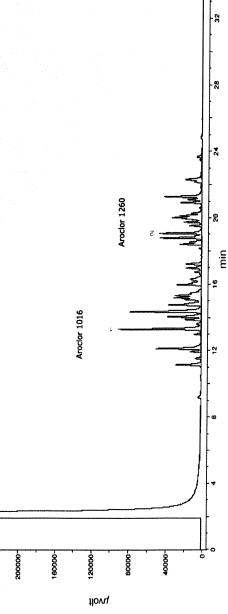
Oven Profile: Temp 1 = 150°C (film 1 = 4 min). Temp 2 = 290°C (filme 2 = 13.5 min)

Rate = 8 C/min. Total run itime = 35 min

Injector temp. = 200°C. FID Temp. = 300°C. FID Signal = Edaq Channel 1

Standard injection = 1.5µL. Range=3

200000



Part # 20064



CERTIFIED REFERENCE MATERIAL



110 Benner Circle Bellefonte, PA 16823-8812 Tel: (800)356-1688 Fax: (814)353-1309

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.:

32000

Lot No.: A0172332

Description:

Pesticide Surrogate Mix

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

Container Size:

2 mL

Pkg Amt:

> 1 mL

Expiration Date:

August 31, 2027

Storage:

10°C or colder

Handling:

Contains PCBs - sonicate prior to

Ship:

Ambient

use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 005248) Purity 98%	2001, Pg	+/- 1.1840 $\mu g/mL$ Gravimetric +/- 6.3622 $\mu g/mL$ Unstressed +/- 8.3106 $\mu g/mL$ Stressed
2	Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 (Lot 30679) Purity 99%	20012 PS	+/- 1.1810 μg/mL Gravimetric +/- 6.3463 μg/mL Unstressed +/- 8.2897 μg/mL Stressed

Solvent:

Acetone

CAS# 67-64-1

Purity

99%

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:

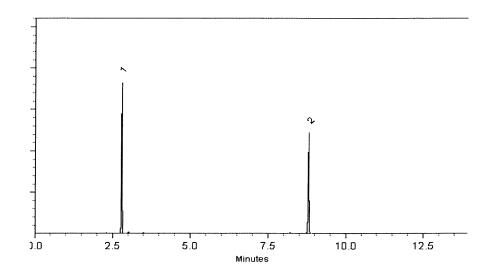
250°C

Det. Temp:

300°C

Det. Type:

ECD



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.

Source Monder
Sam Moodler - Operations Tech I

Date Mixed:

12-May-2021

Balance: B707717271

Alexis Shelow - Operations Tech I

Date Passed:

14-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397 Sand
Purified
Washed and Ignited





Material No.: 3382-05

Batch No.: 0000243821

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

Revision No: 1

Certificate of Analysis

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

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

Country of Origin:

US

Packaging Site:

Paris Mfg Ctr & DC









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

CERTIFICATE OF ANALYSIS

PRODUCT:

SODIUM SULFATE CRYSTALS ANHYDROUS

QUALITY:

ACS (CODE RMB3375)

FORMULA:

Na₂SO₄

SPECIFICATION NUMBER: 6399

RELEASE DATE:

OCT/28/2021

LOT NUMBER: 139404

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.0
insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (CI)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Salcium (Ga)	Max. 0.01%	
Magnesium (Mg)	Max. 0.005%	0.002 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability		0.002 %
Appearance	Passes test	Passes test
dentification	Passes test	Passes test
solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Passes test	Passes test
	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	97.6 %
hrough US Standard No. 60 sieve	Max. 5%	2.1 %
hrough US Standard No. 100 sieve	Max. 10%	0.2 %
		1

COMMENTS

QC: PhC Irma Belmares

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

Recd. by RP on 10/13/22

RE-02-01, Ed. 3



Material No.: 9005-05 Batch No.: 22J2461015

Manufactured Date: 2022-10-20

2 15 23

On

Retest Date: 2027-10-19 Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.5	0.1
Water (H₂O)	≤ 0.5 %	0.2 %
Solubility in H ₂ O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities - Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities - Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 25.0 ppb	3.4 ppb
Trace Impurities - Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities - Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb



Material No.: 9005-05 Batch No.: 22J2461015

Trace impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb	
		/ 210 bhn	
Trace Impurities - Nickel (NI)	≤ 10.0 ppb	< 5.0 ppb	
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb	
Trace Impurities – Potassium (K)	≤ 10.0 ppb	< 10.0 ppb	
Frace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb	
Frace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb	
Frace Impurities – Sodium (Na)	≤ 10.0 ppb	< 5.0 ppb	
Frace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb	
race Impurities - Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb	
race Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb	
race Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb	
race Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb	
race Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb	
race Impurities - Zinc (Zn)	≤ 20.0 ppb	1.8 ppb	
race Impurities - Zirconlum (Zr)	≤ 10.0 ppb	< 1.0 ppb	
article Count – 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	15 par/ml	
article Count – 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	4 par/ml	

Acetone CMOS



Material No.: 9005-05 Batch No.: 22J2461015

Test Specification Result

For Microelectronic Use

Country of Origin: USA

Packaging Site: Paris Mfg Ctr & DC



Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis





Material No.: 9254-03

Batch No.: 22E1562001

Manufactured Date: 2022-05-03 Expiration Date: 2025-05-02

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.8 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	< 1.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.1 %
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

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

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. 57 RP on 6/15/23







Material No.: 9262-03

Batch No.: 23C2462011

Manufactured Date: 2023-03-10 Expiration Date: 2024-06-08

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 Collsomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	97 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 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

Red. 57 RP on 6/15/23



Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis





Material No.: 9254-03

Batch No.: 22L2862006

Manufactured Date: 2022-12-19

Expiration Date: 2025-12-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH3)2CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
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	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2–Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4

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 6/29/23







Material No.: 9262-03

Batch No.: 23C2462011

Manufactured Date: 2023-03-10 Expiration Date: 2024-06-08

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 %	97 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 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 7/5/23



PO: 230629-01 PRODUCT CODE: SHIP DATE: 7/12/2023

Methylene Chloride ULTRA RESI-ANALYZED For Organic Residue Analysis (dichloromethane)





Material No.: 9266-A4

Batch No.: 23F1262016

Manufactured Date: 2023-05-17 Expiration Date: 2024-08-15

Revision No.: 0

Certificate of Analysis

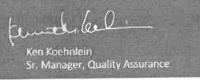
Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH2Cl2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	< 1.0 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (CI)	≤ 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: USA

Packaging Site: Phillipsburg Mfg Ctr & DC Manufacturer source batch: MG23E17953

E 3 543



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





Material No.: 9673-33 Batch No.: 22D0862014

Manufactured Date: 2022-02-23 Retest Date: 2027-02-22

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.5 %
Appearance	Passes Test	Passes Test
ACS - Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	< 1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities - Aluminum (AI)	≤ 30.0 ppb	1.7 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities - Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gold (Au)	≤ 10.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	2.0 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.6 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	$\leq 50.0 \text{ ppb}$	12.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	4.4 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
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>>> Continued on page 2 >>>

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





Material No.: 9673-33 Batch No.: 22D0862014

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	6.2 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.6 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC





Certificate of Analysis ISO 17034

Aroclor 1232 Standard

Product Number: PP-302-1

Page:

1 of 1

Lot Number:

CF-2197A

Lot Issue Date: 05-Jul-2016

Expiration Date: 31-Aug-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte

CAS#

Analyte Lot

True Value

Aroclor 1232

011141-16-5

NT01717

 $100.4 \pm 0.5 \,\mu g/mL$

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois

QMS Representative

P1002



Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System





Certificate of Analysis ISO 17034

Aroclor 1262 Standard

Product Number: PP-372-1

Page:

1 of 1

Lot Number:

0006499800

Lot Issue Date: 04-Nov-2019

Expiration Date: 30-Nov-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte

CAS#

Analyte Lot

True Value

Aroclor 1262

037324-23-5

RM14263

 $100.0 \pm 0.5 \,\mu g/mL$

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

> Monica Bourgeois QMS Representative



Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System





CERTIFIED REFERENCE MATERIAL



110 Benner Circle Bellefonte, PA 16823-8812 Tel: (800)356-1688 Fax: (814)353-1309

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.:

32039

Lot No.: A0163157

Description:

Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Pkg Amt:

Expiration Date:

November 30, 2026

Storage:

25°C nominal

Handling:

This product contains PCBs.

Ship: **Ambient**

> 1 mL

CERTIFIED VALUES

Elution Order	Co	ompound	Grav. Conc. (weight/volume)		Expanded (95% C.L.;	Jncertainty K=2)	
1	Aroclor 1016 CAS # 12674-11-2 Purity%	(Lot 04)	1,007.0 μg/mL	+/- +/- +/-	5.8683 31.9082 41.6868	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2	Aroclor 1260 CAS # 11096-82-5 Purity%	(Lot 07)	1,008.0 µg/mL	+/- +/- +/-	5.8741 31.9399 41.7282	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

Solvent:

Hexane

CAS# 110-54-3

Purity

99%

P10476

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:

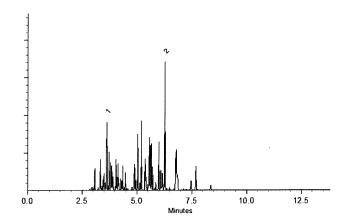
250°C

Det. Temp:

300°C

Det. Type:

ECD



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.

Tom Suckar Mix Technician

Date Mixed:

03-Aug-2020

Balance: B442140311

ustine Albertaon - Operations Tech-ARM QC

Date Passed:

05-Aug-2020

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



CERTIFIED REFERENCE MATERIAL



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Certificate of Analysis





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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.: 32011 Lot No.: A0160220

Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

 Container Size :
 2 mL
 Pkg Amt:
 > 1 mL

 Expiration Date :
 July 31, 2026
 Storage:
 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution	Compound	Grav. Conc.	Expanded Uncertainty
Order		(weight/volume)	(95% C.L.; K=2)
1	Aroclor 1254 CAS # 11097-69-1 (Lot 124-191-B) Purity%	+	-/- 5.9694 μg/mL Gravimetric -/- 31.8658 μg/mL Unstressed -/- 41.6201 μg/mL Stressed

Solvent: Hexane

Description:

CAS # 110-54-3 Purity 99%

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

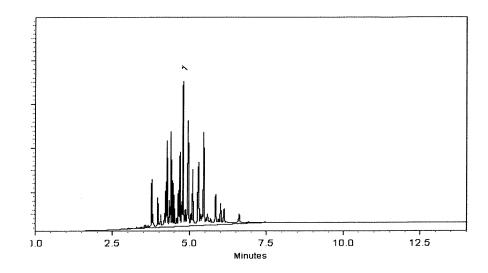
250°C

Det. Temp:

300°C

Det. Type:

FCD.



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.

Mylin Struble - Operations Technician I

Date Mixed:

22-Apr-2020

Balance: 1128360905

Junifu 2 Polling

Jennifer Pollino - Operations Tech-ARM QC

Date Passed:

28-Apr-2020

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



CERTIFIED REFERENCE MATERIAL



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Certificate of Analysis





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Purity

99%

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.: A0167722 Catalog No.: 32409

Description: Aroclor® 1262 Standard

Aroclor® 1262 Standard 1,000 µg/mL, 1mL/ampul, Hexane

Container Size:

2 mL Pkg Amt: > 1 mL **Expiration Date:** April 30, 2027 Storage: 25°C nominal

Handling: This product contains PCBs. Ship: **Ambient**

CERTIFIED VALUES

Elution Order		Con	npound	Grav. ((weight/			Expanded (95% C.L.;	Uncertainty K=2)	
1	Aroclor CAS # Purity	1262 37324-23-5 %	(Lot 10849100)	1,004.0	μg/mL	+/- +/- +/-	5.9635 31.8340 41.5787	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
Solvent:	Hexane	110-54-3					**************************************		

P10496

AJ.

P10500 03/19/21

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:

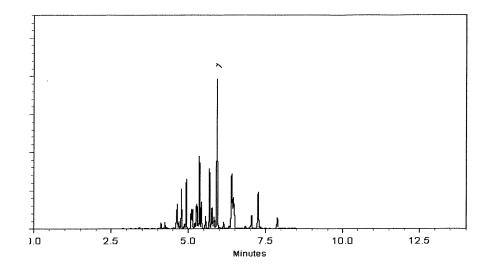
250°C

Det. Temp:

300°C

Det. Type:

ECD .



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.

Sam Moodler - Operations Tech I

Date Mixed:

03-Jan-2021

Balance: B707717271

Marlina THAN
Marlina Cowan - Operations Tech I

Date Passed:

05-Jan-2021

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



CERTIFIED REFERENCE MATERIAL



Bellefonte, PA 16823-8812 Tel: (800)356-1688 Fax: (814)353-1309

Certificate of Analysis





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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.:

32009

Lot No.: A0167551

Description:

Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Pkg Amt: > 1 mL

Expiration Date:

March 31, 2027

Storage:

25°C nominal

Handling:

This product contains PCBs.

Ship: Ambient

CERTIFIED VALUES

Elution Order		Compound		Grav. Conc. (weight/volume)			Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor CAS # Purity	1242 53469-21-9 %	(Lot 01141-A)	1,006.0	μg/mL	+/- +/- +/-	5.9753 31.8975 41.6615	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed	
Solvent:	Hexane CAS # Purity	110-54-3 99%								

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.)

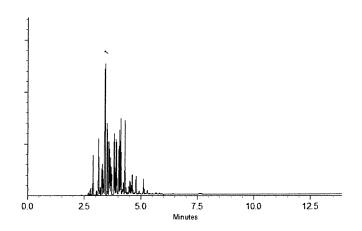
Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:



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.

Tom Suckar Mix Technician

Date Mixed:

28-Dec-2020

Balance: B707717271

Sav trutor

Date Passed:

30-Dec-2020

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

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* CERTIFIED REFERENCE MATERIAL



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Certificate of Analysis





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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.:

32010

Lot No.: A0162497

Description:

Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Pkg Amt:

> 1 mL

Expiration Date:

October 31, 2026

Storage:

25°C nominal

Handling:

This product contains PCBs

CERTIFIED VALUES

Elution Order		Compound	Grav. Conc. (weight/volume)		Expanded (95% C.L.;	Uncertainty K=2)	s e a company de la company de
1	Aroclor 1248 CAS # 12672-29-6 Purity%	(Lot 9303900)	1,006.0 μg/mL	+/- +/- +/-	5.9753 31.8975 41.6615	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

Solvent:

Hexane

CAS# 110-54-3

Purity

99%

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:

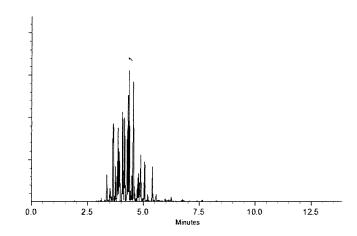
250°C

Det. Temp:

300°C

Det. Type:

ECD



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.

Kylie Struble - Operations Technician

Date Mixed:

13-Jul-2020

Balance: 1128360905

ustine Albertaon - Operations Tech-ARM QC

Date Passed:

16-Jul-2020

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

P 11055
P 11055
P 11055



Certificate of Analysis

P11493 02/21/22 D11497

Product Name:

Aroclor 1221 Standard

Product Number:

PP-292-1

Lot Issue Date:

28-Apr-2020

Lot Number:

0006535333

Expiration Date:

31-May-2024

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte

CAS#

Analyte Lot

Concentration ± Uncertainty

Aroclor 1221

011104-28-2

RM04278

 $100.2 \pm 0.5 \,\mu g/mL$

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions:

Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois

QMS Representative

ISO 17034 Cert No.

AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026 Page: 1 of 1

www.agilent.com/quality/ CSD-QA-015.1

ISO 17025 Cert No. AT-1937





Reference Material Certificate

Product Name:

Aroclor 1242 Standard

Lot Number:

0006665550

Product Number:

PP-312-1

Lot Issue Date:

08-Feb-2022

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date:

31-Jan-2027

Component Name

CERTIFIED VALUES Concentration Expanded Uncertainty

CAS#

Analyte Lot

Aroclor 1242

0.5 µg/mL

053469-21-9

NT01020

Matrix: isooctane (2,2,4-trimethylpentane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

P11973 AT 02121122

Page: 1 of 2

CSD-QA-015.1



Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois QMS Representative



ISO 17034 Cert No. AR-1936 RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/ CSD-QA-015.1



ISO 17025 Cert No. AT-

ISO 17034



Reference Material Certificate

Product Name:

Aroclor 1248 Standard

Lot Number:

0006626997

Product Number:

PP-342-1

Lot Issue Date:

17-Aug-2021

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date:

30-Sep-2025

Component Name

Concentration Expanded Uncertainty

CAS#

Analyte Lot

Aroclor 1248

100.3

0.5 µg/mL

CERTIFIED VALUES

012672-29-6

NT01582

Matrix: isooctane (2,2,4-trimethylpentane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Page: 1 of 2

CSD-QA-015.1



Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois

QMS Representative



ISO 17034 Cert No. AR-1936 RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/ CSD-QA-015.1



ISO 17025 Cert No. AT-1937



Certificate of Analysis

Aroclor 1254 Solution

Product Number:

PP-352

Page:

1 of 1

Lot Number:

CS-2321

Lot Issue Date:

04-May-2018

Expiration Date:

31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte

CAS#

Analyte Lot

True Value

Aroclor 1254

011097-69-1

RM00922

 $100.4 \pm 0.5 \,\mu g/mL$

Matrix:

isooctane (2,2,4-trimethylpentane)

Storage:

Store at Room Temperature (15° to 30°C).

4 P11517 $\frac{1}{02121122}$

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ANAB A C C R E D I T E D TESTING LABORATORY

ISO 9001 Registered TUV USA, Inc. John Russo President Monica Bourgeois
Director of QA/RA



Certificate of Analysis

P11518 AJ P11522 02/21/22

Product Name:

Aroclor 1268 Standard

Product Number:

PP-382-1

Lot Issue Date:

09-Feb-2021

Lot Number:

0006587800

Expiration Date:

31-Mar-2029

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte

CAS#

Analyte Lot

Concentration ± Uncertainty

Aroclor 1268

011100-14-4

RM00937

 $100.0 \pm 0.5 \,\mu g/mL$

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions:

Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois

QMS Representative

ISO 17034 Cert

No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026 Page: 1 of 1

> www.agilent.com/quality/ CSD-QA-015.1



ISO 17025 Cert No. AT-1937



* CERTIFIED REFERENCE MATERIAL



110 Benner Circle Bellefonte, PA 16823-8812 Tel: (800)356-1688 Fax: (814)353-1309

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.:

32007

Lot No.: A0175456

Description:

Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Pkg Amt: > 1 mL

Expiration Date:

November 30, 2027

Storage:

Ship:

25°C nominal **Ambient**

Handling:

This product contains PCBs.

CERTIFIED VALUES

Elution	Compound	Grav. Conc.	Expanded Uncertainty
Order		(weight/volume)	(95% C.L.; K=2 <u>)</u>
1	Aroclor 1221 CAS # 11104-28-2 (Lot 10210500) Purity%	1,002.0 μg/mL	+/- 5.9516 μg/mL Gravimetric +/- 31.7706 μg/mL Unstressed +/- 41.4958 μg/mL Stressed

Solvent:

Hexane

CAS# 110-54-3 Purity 99%

P11578

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

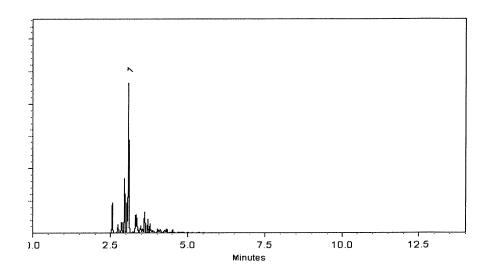
@ 25°C/min. (hold 10 min.)

Inj. Temp: ∕250°C

Det. Temp:

Det. Type:

ECD



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.

Soumuit Moodler Sam Moodler - Operations Tech I

Date Mixed:

16-Aug-2021

Balance: B442140311

Warling man

Date Passed:

18-Aug-2021

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

P11578 (S)
P11582

P11582

P11582



CERTIFIED REFERENCE MATERIAL



110 Benner Circle Bellefonte, PA 16823-8812 Tel: (800)356-1688 Fax: (814)353-1309

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.:

32008

Lot No.: A0173309

Description:

Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Purity

99%

Pkg Amt: Storage:

> 1 mL 25°C nominal

Expiration Date:

Handling:

This product contains PCBs.

September 30, 2027

Ship: **Ambient**

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)			Expanded Uncertainty (95% C.L.; K=2)				
1	Aroclor CAS # Purity	1232 11141-16-5 %	(Lot 15665-01)	1,001.0	μg/mL	+/- +/- +/-	5.9456 31.7389 41.4544	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed	
Solvent:	Hexane CAS#	110-54-3							•	

P11583 (S)
P11587
P11587
P11587

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

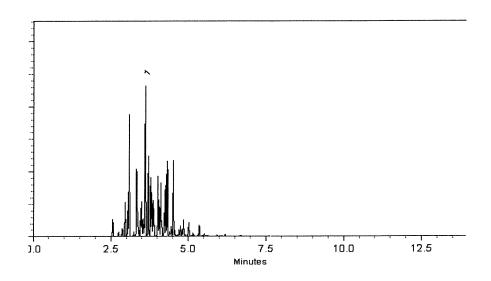
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

Det. Type: **ECD**



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.

Scrumus Moodler odler - Operations Tech I

Date Mixed:

13-Jun-2021

Balance: B442140311

Date Passed:

16-Jun-2021

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

P 11583 (S)
P 11587
P 11587
P 11587



CERTIFIED REFERENCE MATERIAL



110 Benner Circle Bellefonte, PA 16823-8812 Tel: (800)356-1688 Fax: (814)353-1309

Certificate of Analysis





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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.:

32410

Lot No.: A0181782

Description:

Aroclor® 1268 Standard

Aroclor® 1268 Standard 1,000 µg/mL, 1mL/ampul, Hexane

Container Size :

2 mL

Pkg Amt: > 1 mL

Expiration Date:

May 31, 2028

Storage:

25°C nominal

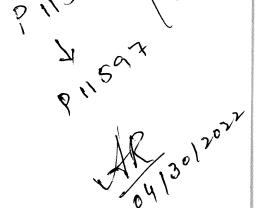
Handling:

This product contains PCBs.

Ship: **Ambient**

CERTIFIED VALUES

Elution Order			Compound	 Grav. ((weight/v			Expanded (95% C.L.;	Uncertainty K=2)	
1	Aroclor CAS # Purity	1268 11100-14-4 %	(Lot 10947000)	1,001.4	μg/mL	+/ +/ +/	- 31.7516	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
Solvent:	Hexane CAS # Purity	110-54-3 99%						2	10



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:

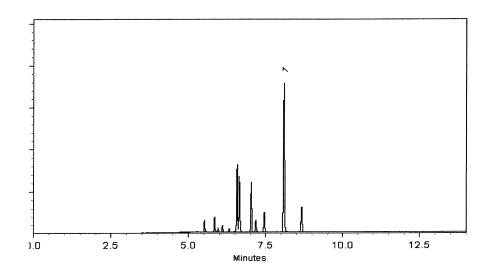
250°C

Det. Temp:

300°C

Det. Type:

ECD .



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.

Penelone Riglin - Operations Tech

Date Mixed:

14-Feb-2022

Balance: 1128360905

Charles Constitution Translation

Date Passed:

17-Feb-2022

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

P 11593 (5)
P 11593 (5)



CERTIFIED REFERENCE MATERIAL



110 Benner Circle Bellefonte, PA 16823-8812 Tel: (800)356-1688 Fax: (814)353-1309

Certificate of Analysis

P11739 to P11748

IIac MRA



www.restek.com

Received by SJ 5/27/2022

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.

Ambient

Catalog No.: 32000 Lot No.: A0179404

Description: Pesticide Surrogate Mix

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

r esticide ourrogate with 200 pg/me, rectoric, micrampt

 Container Size :
 2 mL
 Pkg Amt:
 > 1 mL

 Expiration Date :
 March 31, 2028
 Storage:
 10°C or colder

Handling: Contains PCBs - sonicate prior to

use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. Expanded Uncertainty (weight/volume) (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052481) Purity 98%	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2	Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 (Lot 30679) Purity 99%	200.8 μg/mL +/- 1.1845 μg/mL Gravimetric +/- 6.3653 μg/mL Unstressed +/- 8.3146 μg/mL Stressed

Ship:

Solvent: Acetone

CAS # 67-64-1 Purity 99%

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

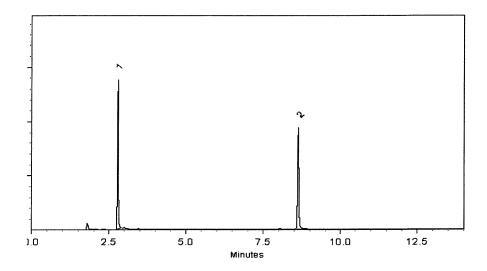
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:





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.

Date Mixed:

09-Dec-2021

Balance: 1127510105

Date Passed:

14-Dec-2021

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

General Certified Reference Material Notes

Expiration Notes:

- · Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A
 correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the
 parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed
uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability
uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined \ stressed} = \ k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage \ stability}^2 + U_{shipping \ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time
 intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was
 stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at
 www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at nonstandard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping
 conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard
 conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

• Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

• Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

www.absolutestandards.com

Certified Reference Material CRM



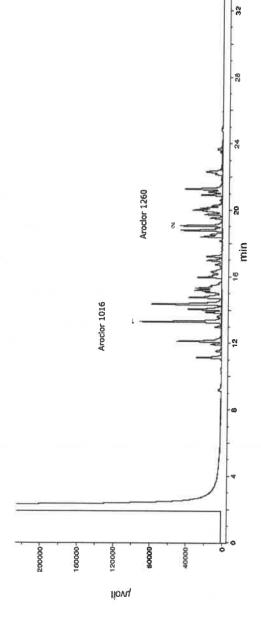
033121 DATE 033121 orl-rat 1315mg/kg LD50 (Solvent Safety Info. On Attached pg.) g SDS Information Prashant Chauhan OSHA PEL (TWA) 37.7 Pedro L. Rentas 0.5mg/m3 ¥ 12674-11-2 11096-82-5 CAS# Formulated By Reviewed By Conc (µg/mL) (++-) (µg/mL) Uncertainty Expanded 4.1 4.1 10001 1001.4 Actual Weight(g) 0.20025 0.20035 233256 Lott Actual Solvent(s): Hexane Weight(g) 0.20007 0.20007 Target 5E-05 Balance Uncertainty 0.058 Flack Uncertainty Uncertainty Punity 0.2 Purity 8 9 8 Conc (ug/mL) CLP PCB'S - Aroclor Mix Aroclors 1016 & 1260 200.1 Nominal 1000 1000 Ambient (20 °C) 020491JC 020491JC Weight(s) shown below were combined and diluted to (mL): Number 033131 ĕ 033121 **GUTB** 1000 RS# 15 2 Description: Recommended Storage: Part Number: Nominal Concentration (µg/mL): Lot Number: Expiration Date: NIST Test ID#: CERTIFIED WEIGHT REPORT 1. Aroclor 1016 2. Aroclor 1260 Compound

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 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).

A3 1116122 102210

012218

Comments
GC3-Mt Analysis by Melessa Strnier
GC3-Mt Analysis by Melessa Strnier
GC3-Mt Analysis by Melessa Strnier
Column ID SP8-608 30 meter X 0.53mm X5µm film thickness
Flow rates: Helium (carrier) = 5ml./mth. Helium (make-up) = 25ml./mth.
Hydogen (make-up) = 30ml./mth. Afr (make-up) = 350ml./min
Oven Profile: Temp 1 = 150°C (film 1 = 4 mth). Temp 2 = 290°C (Time 2 = 13.5 min)
Rate = 8°C/min., Total run film = 35 min in injector vemp. = 200°C. FID Signal = Edag Channel 1
Standard injection = 1.5µL. Range=3



Printed: 11/15/2022, 1:55:07 PM