

Prep Standard - Chemical Standard Summary

Order ID :	O4699
Test :	PCB
Prepbatch ID :	PB156219,
Sequence ID/Qc B	atch ID: PP100923,PP101023,

Standard ID :

EP2379,EP2394,PP22206,PP22207,PP22208,PP22209,PP22210,PP22211,PP22212,PP22213,PP22214,PP22215,PP2 2216,PP22217,PP22218,PP22219,PP2220,PP22221,PP22223,PP22223,PP22224,PP22225,PP22226,PP22227,PP222 28,PP22229,PP22230,PP22231,PP22232,PP22233,PP22234,PP22235,PP22236,PP22237,PP22238,PP22239,PP22240 ,PP22241,PP22242,PP22243,PP22244,PP22245,PP22246,PP22247,PP22248,PP22249,PP22250,PP22251,PP22252,P P22253,PP22254,PP22255,PP22256,PP22257,PP22258,PP22259,PP22260,PP22261,PP22262,PP22263,PP22442/43/ 44/45,PP22446/47/48/49,PP22539,

Chemical ID :

E3412,E3520,E3534,E3563,E3583,E3585,M5613,P10102,P10155,P10480,P10495,P10497,P11049,P11054,P11494,P11 504,P11509,P11516,P11518,P11578,P11584,P11594,P11739,P11743,P12202,W2606,

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Extractions STANDARD PREPARATION LOG

Recipe ID 314	<u>NAME</u> 1.1 H2SO4 SOLN	<u>NO.</u> EP2379	Prep Date 08/24/2023		<u>Prepared</u> <u>By</u> Rajesh Parikh	<u>ScaleID</u> None	PipetteID None	Supervised By RUPESHKUMAR SHAH 08/24/2023
<u>FROM</u>	1000.00000ml of M5613 + 1000.0000	00ml of W26	606 = Final Q	uantity: 2000.0	00 ml			
Decine				Evolution	Dronorod			Supervised Dv

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>	Rajesh Parikh
3923	Baked Sodium Sulfate	<u>EP2394</u>	10/03/2023	10/23/2023	RUPESHKUMA		None	
					R SHAH	ALE_2 (EX-SC-2)		10/03/2023
FROM	1.00000gram of E3412 = Final Quar	ntity: 4000.0	00 gram			(LX-00-2)		

202

AR1660 1000/100 ppb working

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 84	NAME Pest/PCB Surrogate Stock 20 PPM	<u>NO.</u> PP22206	Prep Date 06/30/2023	Expiration Date 12/17/2023	<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	1.00000ml of P11739 + 9.00000ml of	E3520 = F	inal Quantity:	10.000 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 Yogesh Patel

12/17/2023 Ankita Jodhani

None

None

07/05/2023

 solution 1st source
 Image: Control of the solution of

PP22207 06/30/2023

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Recipe ID 203	NAME AR1660 750 PPB STD	<u>NO.</u> PP22208	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	0.25000ml of E3520 + 0.75000ml of l	PP22207 =	Final Quantit	y: 1.000 ml	· · · ·			

<u>Recipe</u> <u>ID</u> 204	<u>NAME</u> AR1660 500 PPB STD	<u>NO.</u> PP22209	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.50000ml of E3520 + 0.50000ml of	I PP22207 =	Final Quantity	y: 1.000 ml	<u> </u>			01100/2020

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Recipe ID 205	<u>NAME</u> AR1660 250 PPB STD	<u>NO.</u> PP22210	Prep Date 06/30/2023	Expiration Date 12/17/2023	<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.75000ml of E3520 + 0.25000ml of I	P22207 =	Final Quantity	y: 1.000 ml	<u> </u>			
Recipe				Expiration	Prepared			Supervised By

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Yogesh Patel
206	AR1660 50 PPB STD	PP22211	06/30/2023	12/17/2023	Ankita Jodhani	None	None	0
								07/05/2023
FROM	0.90000ml of E3520 + 0.10000ml of	PP22209 =	Final Quantity	y: 1.000 ml				

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Recipe ID 213	NAME AR1221 1000 PPB WORKING SOLUTION	<u>NO.</u> PP22212	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.10000ml of P11578 + 99.40000ml o	of E3520 + (0.50000ml of l	- PP22206 = Fir	nal Quantity: 100	.000 ml		

<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	<u>Prep Date</u>	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipettelD</u>	<u>Supervised By</u> Yogesh Patel
1079	AR1221 750 PPB STD	<u>PP22213</u>	06/30/2023	12/17/2023	Ankita Jodhani	None	None	07/05/2023
FROM	0.25000ml of E3520 + 0.75000ml of l	PP22212 =	Final Quantity	y: 1.000 ml	<u> </u>			

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Recipe ID 222	NAME AR1221 500 PPB STD	<u>NO.</u> PP22214	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of l	PP22212 =	Final Quantit	y: 1.000 ml	· · · ·			

<u>Recipe</u> <u>ID</u> 1080	NAME AR1221 250 PPB STD	<u>NO.</u> PP22215	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	I 0.75000ml of E3520 + 0.25000ml of l	PP22212 =	Final Quantity	y: 1.000 ml	<u> </u>			01100/2020

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<u>Recipe</u> <u>ID</u> 1081	NAME AR1221 50 PPB STD	<u>NO.</u> PP22216	Prep Date 06/30/2023	Expiration Date 12/17/2023	<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.90000ml of E3520 + 0.10000ml of	PP22214 =	Final Quantity	y: 1.000 ml	<u> </u>			
Recipe				Expiration	<u>Prepared</u>			Supervised By

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Yogesh Patel
214	AR1232 1000 PPB WORKING	PP22217	06/30/2023	12/17/2023	Ankita Jodhani	None	None	-
	SOLUTION							07/05/2023
FROM	0.10000ml of P11584 + 99.40000ml of	of E3520 + (0.50000ml of I	PP22206 = Fir	nal Quantity: 100).000 ml		

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Recipe ID 1063	NAME AR1232 750 PPB STD	<u>NO.</u> PP22218	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
<u>FROM</u>	0.25000ml of E3520 + 0.75000ml of I	PP22217 =	Final Quantit	y: 1.000 ml	11			

<u>Recipe</u> <u>ID</u> 223	<u>NAME</u> AR1232 500 PPB STD	<u>NO.</u> PP22219	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipettelD None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of l	I PP22217 =	Final Quantity	y: 1.000 ml	<u> </u>			01100/2020

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<u>Recipe</u> <u>ID</u> 1064	NAME AR1232 250 PPB STD	<u>NO.</u> PP22220	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.75000ml of E3520 + 0.25000ml of l	PP22217 =	Final Quantit	y: 1.000 ml				

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

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Recipe ID 215	NAME AR1242 1000 PPB WORKING STD	<u>NO.</u> PP22222	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.10000ml of P11049 + 99.40000ml o	of E3520 + (0.50000ml of F	PP22206 = Fir	al Quantity: 100	.000 ml		

Recipe				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Yogesh Patel
1067	AR1242 750 PPB STD	PP22223	06/30/2023	12/17/2023	Ankita Jodhani	None	None	
								07/05/2023
FROM	0.25000ml of E3520 + 0.75000ml of I	PP22222 =	Final Quantity	y: 1.000 ml				

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<u>Recipe</u> <u>ID</u> 224	<u>NAME</u> AR1242 500 PPB STD	<u>NO.</u> PP22224	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of I	PP22222 =	Final Quantity	y: 1.000 ml	II			
Decine				Evaination	Drenered			Supervised By

<u>Recipe</u>				Expiration	<u>Prepared</u>			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Yogesh Patel
1068	AR1242 250 PPB STD	PP22225	06/30/2023	12/17/2023	Ankita Jodhani	None	None	
								07/05/2023
FROM	0.75000ml of E3520 + 0.25000ml of	PP22222 =	Final Quantity	y: 1.000 ml				

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<u>Recipe</u> <u>ID</u> 1069	NAME AR1242 50 PPB STD	<u>NO.</u> PP22226	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.90000ml of E3520 + 0.10000ml of l	PP22224 =	Final Quantity	y: 1.000 ml	1			
Pasina				Evolution	Propared			Supervised By

Recipe	NAME	NO	Bron Doto	Expiration	Prepared	SocialD	BinottolD	Supervised By
ID	NAME	<u>NO.</u>	Prep Date		<u>By</u>	<u>ScaleID</u>	PipettelD	Yogesh Patel
216	AR1248 1000 PPB WORKING	PP22227	06/30/2023	12/17/2023	Ankita Jodhani	None	None	
	STD							07/05/2023
FROM	0.10000ml of P11054 + 99.40000ml of	of E3520 + ().50000ml of I	PP22206 = Fir	al Quantity: 100).000 ml		

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<u>Recipe</u> <u>ID</u> 1075	<u>NAME</u> AR1248 750 PPB STD	<u>NO.</u> PP22228	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	0.25000ml of E3520 + 0.75000ml of	PP22227 =	Final Quantity	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 225	NAME AR1248 500 PPB STD	<u>NO.</u> PP22229	Prep Date 06/30/2023	Expiration Date 12/17/2023	<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of	I PP22227 =	Final Quantity	y: 1.000 ml	I I			01103/2023

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<u>Recipe</u> <u>ID</u> 1076	<u>NAME</u> AR1248 250 PPB STD	<u>NO.</u> PP22230	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	0.75000ml of E3520 + 0.25000ml of	PP22227 =	Final Quantity	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 1077	NAME AR1248 50 PPB STD	<u>NO.</u> PP22231	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	0.90000ml of E3520 + 0.10000ml of	I PP22229 =	Final Quantit	y: 1.000 ml	<u> </u>			51100/2020

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Recipe ID 217	NAME AR1254 1000 PPB WORKING STD	<u>NO.</u> PP22232	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.10000ml of P10495 + 99.40000ml o	of E3520 + (0.50000ml of l	PP22206 = Fir	nal Quantity: 100	0.000 ml		

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Yogesh Patel
1071	AR1254 750 PPB STD	PP22233	06/30/2023	12/17/2023	Ankita Jodhani	None	None	
								07/05/2023
FROM	0.25000ml of E3520 + 0.75000ml of	PP22232 =	Final Quantity	y: 1.000 ml				

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Recipe ID 226	<u>NAME</u> AR1254 500 PPB STD	<u>NO.</u> PP22234	Prep Date 06/30/2023	Expiration Date 12/17/2023	<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.50000ml of E3520 + 0.50000ml of	PP22232 =	Final Quantit	y: 1.000 ml	<u> </u>			

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Yogesh Patel
1072	AR1254 250 PPB STD	PP22235	06/30/2023	12/17/2023	Ankita Jodhani	None	None	Ū
								07/05/2023
FROM	0.75000ml of E3520 + 0.25000ml of I	PP22232 =	Final Quantity	y: 1.000 ml				

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<u>Recipe</u> <u>ID</u> 1073	NAME AR1254 50 PPB STD	<u>NO.</u> PP22236	Prep Date 06/30/2023	Expiration Date 12/17/2023	<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.90000ml of E3520 + 0.10000ml of l	PP22234 =	Final Quantit	y: 1.000 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>	PipetteID	Yogesh Patel
1529	AR1262 1000 PPB Working	PP22237	06/30/2023	12/17/2023	Ankita Jodhani	None	None	-
	Solution							07/05/2023
FROM	0.10000ml of P10497 + 99.40000ml	of E3520 + (0.50000ml of I	PP22206 = Fir	nal Quantity: 100).000 ml		

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Recipe ID 3753	<u>NAME</u> AR1262 750 PPB STD	<u>NO.</u> PP22238	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.25000ml of E3520 + 0.75000ml of	PP22237 =	Final Quantit	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 1530	<u>NAME</u> AR1262 500 PPB STD	<u>NO.</u> PP22239	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of l	I PP22237 =	Final Quantit	y: 1.000 ml				01103/2023

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Recipe ID 3754	NAME AR1262 250 PPB STD	<u>NO.</u> PP22240	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	0.75000ml of E3520 + 0.25000ml of	I PP22237 =	Final Quantity	y: 1.000 ml	<u> </u>			

<u>Recipe</u> <u>ID</u> 3755	NAME AR1262 50 PPB STD	<u>NO.</u> PP22241	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	0.90000ml of E3520 + 0.10000ml of l	PP22239 =	Final Quantity	y: 1.000 ml				01103/2023

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Recipe ID 1532	NAME AR1268 1000 PPB Working Solution	<u>NO.</u> PP22242	Prep Date 06/30/2023	Expiration Date 12/17/2023	<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.10000ml of P11594 + 99.40000ml o	of E3520 + ().50000ml of I	PP22206 = Fir	al Quantity: 100	1.000 ml		
Recipe				Expiration	Prepared			Supervised By

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	Date	<u>By</u>	<u>ScaleID</u>	PipettelD	Yogesh Patel
3820	AR1268 750 PPB STD	PP22243	06/30/2023	12/17/2023	Ankita Jodhani	None	None	5
								07/05/2023
FROM	0.25000ml of E3520 + 0.75000ml of l	PP22242 =	Final Quantity	y: 1.000 ml				

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Recipe ID 1533	NAME AR1268 500 PPB STD	<u>NO.</u> PP22244	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	PP22242 =	Final Quantit	y: 1.000 ml	<u> </u>			
Decine				Evairation	Dronorod			Supervised B

Recipe				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Yogesh Patel
3821	AR1268 250 PPB STD	PP22245	06/30/2023	12/17/2023	Ankita Jodhani	None	None	
								07/05/2023
FROM	0.75000ml of E3520 + 0.25000ml of	PP22242 =	Final Quantity	y: 1.000 ml				

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Recipe ID 3822	NAME AR1268 50 PPB STD	<u>NO.</u> PP22246	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	0.90000ml of E3520 + 0.10000ml of l	P22244 =	Final Quantit	y: 1.000 ml				
Recipe				Expiration	Prepared			Supervised By

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Yogesh Patel
404	AR1660 100 PPM Stock Solution 2nd Source	<u>PP22247</u>	06/30/2023	12/29/2023	Ankita Jodhani	None	None	07/05/2023
								07/05/2023
FROM	1.00000ml of P12202 + 9.00000ml of	f E3534 = F	inal Quantity:	10.000 ml				

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<u>Recipe</u> <u>ID</u> 405	NAME AR1660 1000/100 PPB ICV STD	<u>NO.</u> PP22248	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	49.25000ml of E3520 + 0.25000ml of	F PP22206 +	- 0.50000ml o	f PP22247 = F	inal Quantity: 50	0.000 ml		

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	Date	<u>By</u>	<u>ScaleID</u>	PipettelD	Yogesh Patel
406	AR1660 500 PPB ICV	<u>PP22249</u>	06/30/2023	12/17/2023	Ankita Jodhani	None	None	
								07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of I	PP22248 =	Final Quantity	y: 1.000 ml				

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Recipe ID 3789	NAME AR1221 1000 PPB WORKING SOL.2ND SOURCE(AGILENT)	<u>NO.</u> PP22250	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	1.00000ml of P11494 + 98.50000ml o	of E3520 + (D.50000ml of F	PP22206 = Fir	nal Quantity: 100	.000 ml		

NAME AR1221 500 PPB ICV(AGILENT)	<u>NO.</u> PP22251	Prep Date 06/30/2023	Expiration Date 12/17/2023	<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
0.50000ml of E3520 + 0.50000ml of F	PP22250 =	Final Quantity	y: 1.000 ml				07/05/2023
	AR1221 500 PPB ICV(AGILENT)	AR1221 500 PPB ICV(AGILENT) PP22251	AR1221 500 PPB ICV(AGILENT) PP22251 06/30/2023		AR1221 500 PPB ICV(AGILENT) PP22251 06/30/2023 12/17/2023 Ankita Jodhani	AR1221 500 PPB ICV(AGILENT) PP22251 06/30/2023 12/17/2023 Ankita Jodhani None	AR1221 500 PPB ICV(AGILENT) PP22251 06/30/2023 12/17/2023 Ankita Jodhani None None

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<u>Recipe</u> <u>ID</u> 1887	NAME AR1232 1000 PPB Working Sol. 2nd Source	<u>NO.</u> PP22252	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	1.00000ml of P10102 + 98.50000ml	of E3520 + (0.50000ml of	PP22206 = Fir	nal Quantity: 100	0.000 ml		

<u>Recipe</u>				Expiration	Prepared			<u>Supervised By</u>
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Yogesh Patel
1888	AR1232 500 PPB ICV	PP22253	06/30/2023	12/17/2023	Ankita Jodhani	None	None	
								07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of	PP22252 =	Final Quantity	y: 1.000 ml				

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Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe</u> <u>ID</u> 1889	NAME AR1242 1000 PPB Working Sol. 2nd Source	<u>NO.</u> PP22254	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
<u>FROM</u>	1.00000ml of P11504 + 98.50000ml o	of E3520 + (0.50000ml of l	- PP22206 = Fir	nal Quantity: 100	.000 ml		
					i			

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Yogesh Patel
1891	AR1242 500 PPB ICV	<u>PP22255</u>	06/30/2023	12/17/2023	Ankita Jodhani	None	None	Ũ
								07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of l	PP22254 =	Final Quantity	y: 1.000 ml				

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<u>Recipe</u> <u>ID</u> 1890	NAME AR1248 1000 PPB Working Sol. 2nd Source	<u>NO.</u> PP22256	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	1.00000ml of P11509 + 98.50000ml o	of E3520 + (0.50000ml of F	P22206 = Fir	nal Quantity: 100	.000 ml		
		i						

Recipe				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Yogesh Patel
1892	AR1248 500 PPB ICV	PP22257	06/30/2023	12/17/2023	Ankita Jodhani	None	None	
								07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of	PP22256 =	Final Quantity	y: 1.000 ml				

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Recipe ID 1893	NAME AR1254 1000 PPB Working Sol. 2nd Source	<u>NO.</u> PP22258	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	1.00000ml of P11516 + 98.50000ml o	of E3520 + (0.50000ml of l	PP22206 = Fir	nal Quantity: 100	.000 ml		

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

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<u>Recipe</u> <u>ID</u> 3757	NAME AR1262 1000 PPB Working Solution second source	<u>NO.</u> PP22260	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
<u>FROM</u>	1.00000ml of P10155 + 98.50000ml (l of E3520 + (l 0.50000ml of l	L PP22206 = Fir	l nal Quantity: 100).000 ml		01103/2023
Pasing				Evpiration	Droporod			Supervised Du

Recipe				Expiration	<u>Prepared</u>			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	Date	<u>By</u>	<u>ScaleID</u>	PipettelD	Yogesh Patel
3758	AR1262 500 PPB STD ICV	PP22261	06/30/2023	12/17/2023	Ankita Jodhani	None	None	
								07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of l	PP22260 =	Final Quantity	y: 1.000 ml				

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<u>Recipe</u> <u>ID</u> 3817	NAME AR1268 1000 ppb Working Soln. 2nd source	<u>NO.</u> PP22262	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	1.00000ml of P11518 + 98.50000ml o	of E3520 + ().50000ml of I	PP22206 = Fir	nal Quantity: 100	0.000 ml		

Recipe ID 3823	NAME AR1268 500 PPB STD ICV	<u>NO.</u> PP22263	Prep Date 06/30/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/05/2023
FROM	0.50000ml of E3520 + 0.50000ml of l	PP22262 =	Final Quantity	y: 1.000 ml	I I			01100/2020

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Recipe ID 465	NAME 200 PPB Pest/PCB Surrogate Spike	<u>NO.</u> PP22539	Prep Date 09/08/2023	Expiration Date 03/05/2024	Prepared By Abdul Mirza	<u>ScaleID</u> None	PipetteID None	Supervised By Ankita Jodhani 09/11/2023
FROM	1.00000ml of P11743 + 999.00000ml	of E3563 =	= Final Quanti	ty: 1000.000 m	1			



CHEMICAL RECEIPT LOG BOOK

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	04/10/2024	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	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	23C2462011	01/19/2024	06/17/2023 / Rajesh	06/15/2023 / Rajesh	E3520
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)	12/18/2025	12/29/2023	06/29/2023 / Rajesh	06/29/2023 / Rajesh	E3534
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)	22L2862006	03/05/2024	09/05/2023 / Rajesh	08/31/2023 / Rajesh	E3563

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)	23G1962004	04/04/2024	10/04/2023 / Rajesh	09/25/2023 / Rajesh	E3583

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	04/09/2024	10/09/2023 / Rajesh	10/05/2023 / Rajesh	E3585



Technologies

CHEMICAL RECEIPT LOG BOOK

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)	0000265056	11/05/2025	07/13/2023 / mohan	07/07/2023 / mohan	M5613
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 / Received By	Chemtech Lot #
Agilent	PP-372-1 / Aroclor 1262	0006499800	12/30/2023	06/30/2023 /	01/12/2021 /	P10155

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32039 / PCB Mix, Aroclor 1016/1260, 1000ug/mL, hexane, 1mL/ampul	A0163157	12/30/2023	06/30/2023 / Ankita	03/19/2021 / Abdul	P10480

Ankita

Abdul

P10155

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



CHEMICAL RECEIPT LOG BOOK

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, 1mL/ampul	A0167551	12/30/2023	06/30/2023 / Ankita	09/03/2021 / Abdul	P11049
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32010 / PCB Mix, Aroclor 1248, 1000ug/mL, Hexane, 1mL/ampul	A0162497	12/30/2023	06/30/2023 / Ankita	09/03/2021 / Abdul	P11054
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 Opened /	Received Date /	Chemtech

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



CHEMICAL RECEIPT LOG BOOK

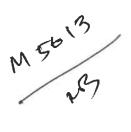
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-382-1 / Aroclor 1268	0006587800	12/30/2023	06/30/2023 / Ankita	02/21/2022 / Ankita	P11518
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32007 / PCB Mix, Aroclor 1221, 1000ug/mL, Hexane, 1mL/ampul	A0175456	12/30/2023	06/30/2023 / Ankita	03/18/2022 / Abdul	P11578
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
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	03/08/2024	09/08/2023 / Abdul	05/27/2022 / Sohil	P11743



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	20064 / Aroclor 1016/1260	033121	12/30/2023	06/30/2023 / Ankita	11/16/2022 / Ankita	P12202
			Expiration	Date Opened /	Received Date /	Chamtach
Supplier	ItemCode / ItemName	Lot #	Date	Opened By	Received By	Chemtech Lot #

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







Material No.: 9673-33 Batch No.: 0000265056 Manufactured Date: 2020/05/12 Retest Date: 2025/05/11 Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H2SO4)	95.0 - 98.0 %	96.5
Appearance	Passes Test	РТ
ACS – Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	< 1
ACS – Substances Reducing Permanganate (as SO2)	<= 2 ppm	< 2
Ammonium (NH4)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO3)	<= 0.2 ppm	< 0.1
Phosphate (PO4)	<= 0.5 ppm	< 0.1
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities – Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities – Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	< 1.0
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities – Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

Material No.: 9673-33 Batch No.: 0000265056

Test	Specification	Result
Trace Impurities - Iron (Fe)	<= 50.0 ppb	3.3
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	< 0.2
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities – Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities – Selenium (Se)	<= 50.0 ppb	17.8
Trace Impurities – Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 500.0 ppb	1.5
Trace Impurities – Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities – Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities – Vanadium (V)	<= 10.0 ppb	< 1.0
Frace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Frace Impurities – Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

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

James Techie Jamie Ethier Vice President Global Quality



E 3412



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CERTIFICATE OF ANALYSIS

	ULFATE CRYSTALS AN	HYDROUS
	E RMB3375)	FORMULA : Na ₂ SO ₄
SPECIFICATION NUMBER: 6399		RELEASE DATE: OCT/28/2021
LOT NUMBER : 139404	Description of the second s	
TEST	SPECIFICATION	IS LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25%	5.2 - 9.2	6.0
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1%
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	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 %
Calcium (Ca)	Max. 0.01%	
Magnesium (Mg)	Max. 0.005%	0.002 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	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	Max. 1%	Passes test
Retained on US Standard No. 60 sieve		0.2 %
hrough US Standard No. 60 sieve	Min. 94%	97.6 %
	Max. 5%	2.1 %
hrough US Standard No. 100 sieve	Max. 10%	0.2 %
		A. S. S.
	COMMENTS	
		-23
		QC: PhC Irma Belmares

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

Recd. 57 RP on 10/13/22

RE-02-01, Ed. 3

Hexanes (95% n-hexane) BAKER RESI-ANALYZED® Reagent

() avantor



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

James Techies Jamie Ethier Vice President Global Quality

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. 57 RP on 6/29/23 E 35 34

James Techies Jamie Ethier Vice President Global Quality

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

imes Techies Jamie Ethier Vice President Global Quality

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

(V) avantor



Material No.: 9266-A4 Batch No.: 23G1962004 Manufactured Date: 2023-06-16 Expiration Date: 2024-09-14 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	
Assay (CH2Cl2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %	
Color (APHA)	≤ 10	5	
Residue after Evaporation	≤ 1.0 ppm	0.3 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: MG23F16083

Kennedalel.

Hexanes (95% n-hexane) BAKER RESI-ANALYZED® Reagent





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 Ce 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

James Techies Jamie Ethier Vice President Global Quality



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

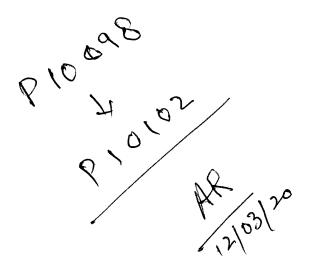
This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte,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

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.4 ± 0.5 µg/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



ISO17025 Cert No. AT-1937



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

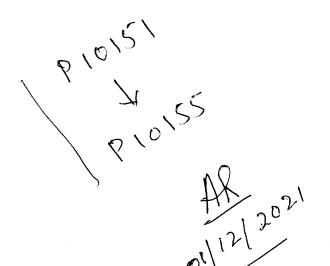
This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty 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 ± 0.5 µg/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



ISO 17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality



Bellefonte, PA 16823-8812

Tel: (800)356-1688 Fax: (814)353-1309

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #322.02

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 1,00	0 μg/mL, Hexane, 1mL/aι	mpul	
Container Size :	2 mL	Pkg Amt:	> 1 mL	
Expiration Date :	November 30, 2026	Storage:	25°C nominal	
Handling:	This product contains PCBs.	Ship:	Ambient	

CERTIFIED VALUES

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Elution Order	Com	pound	Grav. Conc. (weight/volume)		Expanded (95% C.L.;	Uncertainty 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%

P 10476 P 10480 P 10480

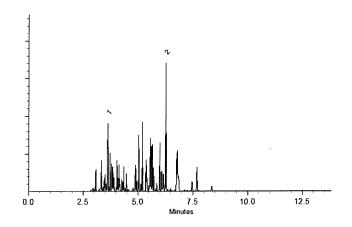
Carrier Gas: helium-constant pressure 20 psi.

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.



Date Mixed:

Balance: B442140311



Date Passed: 05-Aug-2020

03-Aug-2020



Bellefonte, PA 16823-8812

Tel: (800)356-1688 Fax: (814)353-1309

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



ACCREDITED ISO/IEC 17/25 Accredited Testing Laboratory Certificate #322.202

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. :	<u>32011</u> Lot No.: <u>A0160220</u>						
Description :	Aroclor® 1254 Standard						
	Aroclor® 1254 Standard 1,000) µg/mL, Hexane, 1mL/a	mpul				
Container Size :	<u>2 mL</u>	Pkg Amt:	> 1 mL				
Expiration Date :	July 31, 2026	Storage:	25°C nominal				
Handling:	This product contains PCBs.	•					

CERTIFIED VALUES

Thildy

Elution Order	Cor	npound	Grav. Conc. (weight/volume)		Expanded (95% C.L.;	Uncertainty K=2)	
1	Aroclor 1254 CAS # 11097-69-1 Purity%	(Lot 124-191-B)	1,005.0 μg/mL	+/-	5.9694 31.8658 41.6201	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
Solvent:	Hexane						<u></u>

CAS # 110-54-3

Purity 99%

R 10 1 1 1015 210 1015 Af

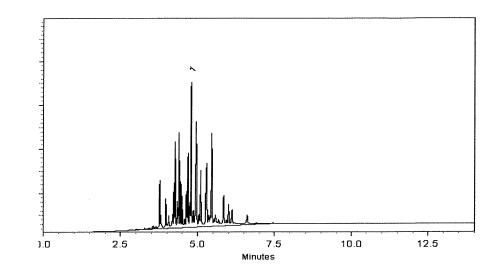
Carrier Gas: helium-constant pressure 20 psi.

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.

Hylin - Stand

Date Mixed:

Balance: 1128360905

Junifer 2 Pollino Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 28-Apr-2020

22-Apr-2020



110 Benner Circle Bellefonte, PA 16823-8812

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



AC-MRA

William



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. :	32409	Lot No.:	A0167722	
Description :	Aroclor® 1262 Standard			
	Aroclor® 1262 Standard 1,000 µ	g/mL, 1mL/ampul, He	xane	
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	(Compound	Grav. Conc. (weight/volume)		Expanded (95% C.L.;	Uncertainty K=2)	
1	Aroclor 1262 CAS # 37324-23-5 Purity%	(Lot 10849100)	1,004.0 μg/mL	+/-	5.9635 31.8340 41.5787	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
Solvent:	Hexane						

CAS # 110-54-3 Purity 99%

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P10496 J AJ P10500 03/19/21

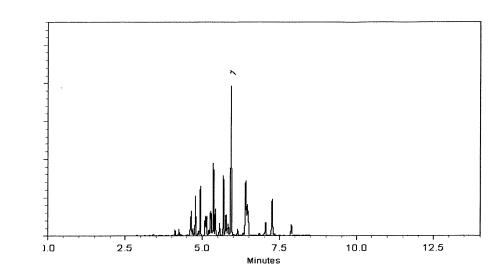
Carrier Gas: helium-constant pressure 20 psi.

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 Modeller Sam Moodler - Operations Tech I

Date Mixed:

Balance: B707717271

Marlina man Marlina Cowan - Operations Tech I

Date Passed: 05-Jan-2021

03-Jan-2021



CERTIFIED REFERENCE MATERIAL

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	- 5110
Description :	Aroclor® 1242 Standard			- 1050
	Aroclor® 1242 Standard 1,000 μ	g/mL, Hexane, 1mL/a	mpul	RII
Container Size :	2 mL	Pkg Amt:	> 1 mL	
Expiration Date :	March 31, 2027	Storage:	25°C nominal	- thigh
Handling:	This product contains PCBs.	Ship:	Ambient	

CERTIFIED VALUES

Elution Order	C	Compound	Grav. Conc <i>.</i> (weight/volume)	Expanded (95% C.L.;	Uncertainty K=2)	1. A
1	Aroclor 1242 CAS # 53469-21-9 Purity%	(Lot 01141-A)	1,006.0 μg/mL	5.9753 31.8975 41.6615	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
Solventi	Havana					

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

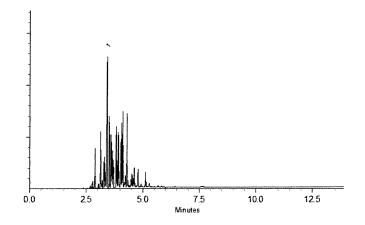
Carrier Gas: helium-constant pressure 20 psi.

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

Inj. Temp: 250°C

Det. Temp: 300°C

Det. Type: ECD

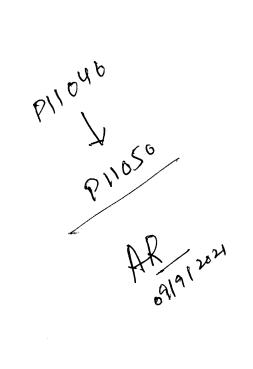


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Date Mixed: 28-Dec-2020 Balance: B707717271

Date Passed: 30-Dec-2020





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

* CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



A CCREDITED ISO/EC 17025 Accredited Testing Laboratory Certificate #322.02

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. P11051 P11055 P11055 Lot No.: A0162497 32010 Catalog No. : Aroclor® 1248 Standard **Description**: R 11912021 Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul > 1 mL Pkg Amt: 2 mL **Container Size :** 25°C nominal Storage: **Expiration Date :** October 31, 2026 This product contains PCBs. Handling:

CERTIFIED VALUES

"Antalant

Elution Order			Compound	Grav. ((weight/v			Expanded (95% C.L.;	Uncertainty K=2)	s.+
1	Aroclor 1 CAS # Purity	248 12672-29-6 %	(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%

Carrier Gas: helium-constant pressure 20 psi.

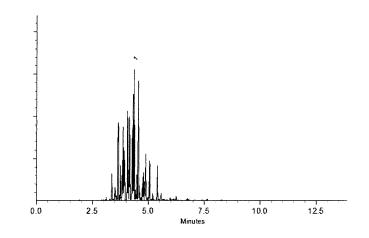
Temp. Program: 200°C to 300°C

@ 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.



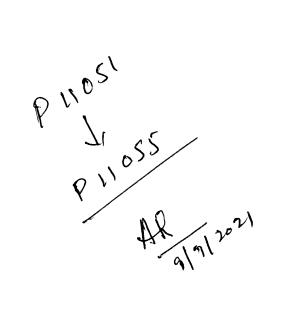
Date Mixed:

Balance: 1128360905



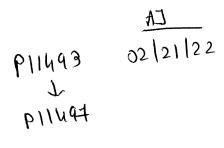
Date Passed: 16-Jul-2020

13-Jul-2020





Certificate of Analysis



 Product Number:
 PP-292-1
 Lot Issue Date:
 28-Apr-2020

 Lot Number:
 0006535333
 Expiration Date:
 31-May-2024

Description:

Product Name:

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 \pm Uncertainty
Aroclor 1221	011104-28-2	RM04278	100.2 ± 0.5 µg/mL

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

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

Aroclor 1221 Standard

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.

Hazards:

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



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

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ISO 17034			🗧 Agilen
			Trusted Answe
	Reference Mate	rial 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
		CERTIFIED VALUES	
Component Name	Conce	ntration Expanded Uncertainty CA	S# Analyte Lot
Aroclor 1242		00.4 ± 0.5 µg/mL 05346	9-21-9 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.

Safety:

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.

CSD-0A-015.1

1 of 2



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:

001 2000 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			·•• •••	🔆 Agilent
				• Trusted Answers
	Reference Ma	terial Certific	ate	
nan mana kana kana kana kana kana kana k				
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
		CERTIFIED VAL	UES	
Component Name	Co	ncentration Expand	ded Uncertainty C	AS# Analyte Lot
Aroclor 1248		100,3 ± 0.5	iµg/mL 0126	72-29-6 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.

Safety:

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

PIISO8 AJ PIISO8 2/21/22

CSD-0A-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:

Ow 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 Aroclor 1254

CAS# 011097-69-1 Analyte Lot RM00922

True Value 100.4 ± 0.5 µg/mL

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

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

P11513 P11517 AJ 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.



John Russo President

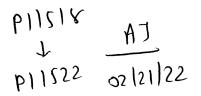
OW

Monica Bourgeois Director of QA/RA

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/guality



Certificate of Analysis



Product Name:	Arocior 1208 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 \pm Uncertainty
Aroclor 1268	011100-14-4	RM00937	100.0 ± 0.5 μg/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.

Hazards:

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



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

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality



CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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

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/a	mpul	
Container Size :	2 mL	Pkg Amt:	> 1 mL	
Expiration Date :	November 30, 2027	Storage:	25°C nominal	
Handling:	This product contains PCBs.	Ship:	Ambient	

CERTIFIED VALUES

Elution	Compound	Grav. Conc.	Expanded Uncertainty
Order		(weight/volume)	(95% C.L.; K= <u>2)</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%

3 P 11578 P 11582 P 11582 T 12



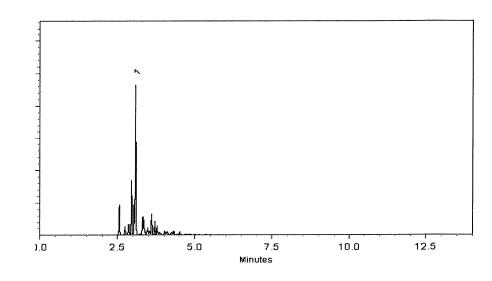
Carrier Gas: helium-constant pressure 20 psi.

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.



Date Mixed:

Balance: B442140311 16-Aug-2021

Marlina man tions Tech I

Date Passed: 18-Aug-2021

P11578 (S) P11582 (S) AR, p4/30/22





CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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

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 1,00	0 μg/mL, Hexane, 1mL/a	npul	
Container Size :	2 mL	Pkg Amt:	> 1 mL	
Expiration Date :	September 30, 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 1232 CAS # 11141-16-5 (Lot 15665-01) Purity %	1,001.0 μg/mL	+/- 5.9456 μg/mL +/- 31.7389 μg/mL +/- 41.4544 μg/mL	Gravimetric Unstressed Stressed

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

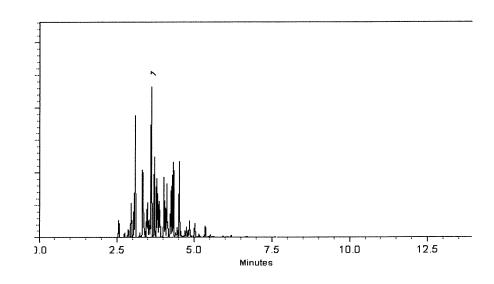
Carrier Gas: helium-constant pressure 20 psi.

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.

Scrimmer Moodler odler - Operations Tech I

Date Mixed:

Balance: B442140311 13-Jun-2021

ds Shelow Operations Tech I

Date Passed: 16-Jun-2021





CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



ACCREDITED ISO/EC 17025 Accredited Testing Laboratory Certificate #3222.02

www.restek.com

Bellefonte, PA 16823-8812

Tel: (800)356-1688 Fax: (814)353-1309

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.

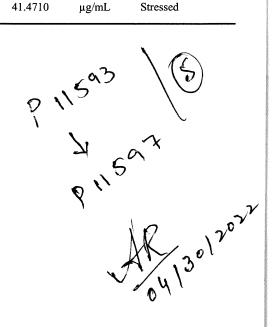
Catalog No. :	32410	Lot No.:	A0181782
Description :	Aroclor® 1268 Standard		
	Aroclor® 1268 Standard 1,000	µg/mL, 1mL/ampul, He	kane
Container Size :	• •		
container Size .	2 mL	Pkg Amt:	> 1 mL
Expiration Date :	2 mL May 31, 2028	Pkg Amt: Storage:	> 1 mL 25°C nominal

CERTIFIED VALUES

Halab

Elution Order	Com	pound .	Grav. Conc. (weight/volume)	Expanded (95% C.L.;	Uncertainty K=2)	
1	Aroclor 1268 CAS # 11100-14-4 Purity%	(Lot 10947000)	1,001.4 μg/mL	+/- 5.9480 +/- 31.7516 +/- 41.4710	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

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



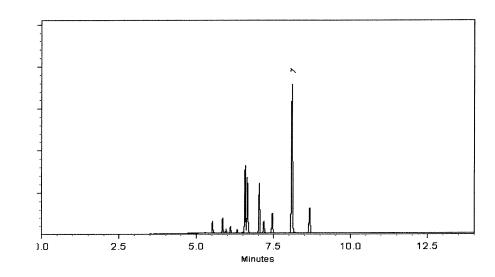
Carrier Gas: helium-constant pressure 20 psi.

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.

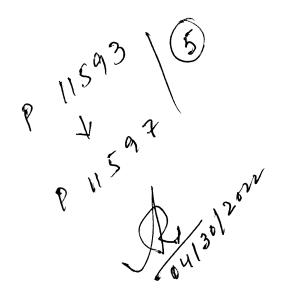
Date Mixed: Penelope Riglin - Operations Tech I

14-Feb-2022

Balance: 1128360905

Clara Windle - Operations Technician

Date Passed: 17-Feb-2022



RESTEK 110 Benner Circle	CERTIFIED REFERENCE MATE	RIAL	ACCREDITED ISO 17034 Accredited Reference Material Producer Carificate #222201
Bellefonte, PA 16823-8812 Tel: (800)356-1688	Certificate of Analysis	and the second s	
Fax: (814)353-1309	P11739 to P11748	Hac-MRA	ACCREDITED
www.restek.com	Received by SJ 5/27/2022	The Andulutur	ISO/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. :	32000	Lot No.:	A0179404
Description :	Pesticide Surrogate Mix		
	Pesticide Surrogate Mix 200 µg/mL, A	cetone, 1mL/am	pul
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.	Ship:	Ambient

CERTIFIED VALUES

Elution Order	Сотро	Ind	Grav. Conc. (weight/volume)		Expanded (95% C.L.;	Uncertainty K=2)	
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 Purity 98%	(Lot 0052481)	200.7 μg/mL	+/- +/- +/-	1.1840 6.3622 8.3106	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2	Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 Purity 99%	(Lot 30679)	200.8 µg/mL	+/- +/- +/-	1.1845 6.3653 8.3146	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

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

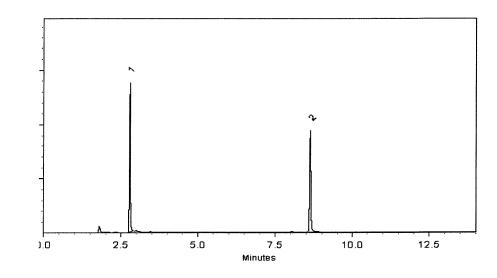
Carrier Gas: helium-constant pressure 20 psi.

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.

Balance: 1127510105

Matt Fragassi - Mix Technician

Vora-Wide Clara Windle - Operations Technician I

Date Passed: 14-Dec-2021

09-Dec-2021

Date Mixed:

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 <u>www.restek.com/Contact-Us</u>.
- 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.

RESTEK 110 Benner Circle	CERTIFIED REFERENCE MATE	RIAL	ACCREDITED ISO 17034 Accredited Reference Material Producer Carificate #222201
Bellefonte, PA 16823-8812 Tel: (800)356-1688	Certificate of Analysis	and the second s	
Fax: (814)353-1309	P11739 to P11748	Hac-MRA	ACCREDITED
www.restek.com	Received by SJ 5/27/2022	The Andrewski	ISO/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. :	32000	Lot No.:	A0179404
Description :	Pesticide Surrogate Mix		
	Pesticide Surrogate Mix 200 µg/mL, A	cetone, 1mL/am	pul
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.	Ship:	Ambient

CERTIFIED VALUES

Elution Order	Сотро	Ind	Grav. Conc. (weight/volume)		Expanded (95% C.L.;	Uncertainty K=2)	
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 Purity 98%	(Lot 0052481)	200.7 μg/mL	+/- +/- +/-	1.1840 6.3622 8.3106	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2	Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 Purity 99%	(Lot 30679)	200.8 µg/mL	+/- +/- +/-	1.1845 6.3653 8.3146	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

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

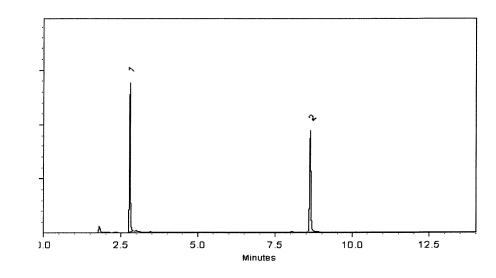
Carrier Gas: helium-constant pressure 20 psi.

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.

Balance: 1127510105

Matt Fragassi - Mix Technician

Vora-Wide Clara Windle - Operations Technician I

Date Passed: 14-Dec-2021

09-Dec-2021

Date Mixed:

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
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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 <u>www.restek.com/Contact-Us</u>.
- 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.

Inc.		
solute Standards, I	-368-1131	v.absolutestandards.com
Ab	800	MM

Certified Reference Material CRM



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

CERTIFIED WEIGHT REPORT												
Part Number:		20064				Solvent(s):	Lot					
Lot Number:		033121				Hexane	233256			10	1-1	
Description:		CLP PCB'S.	CLP PCB'S - Aroclor Mix							tor t	and here la	033101
		Arociors 1016 (16 & 1260						Formulated Rv.	1	Drachant Chalithan	
Expiration Date:		033131										DAIE
Recommended Storage:		Ambient (20 °C)	ŝ							0	J.	
Nominal Concentration (µg/mL):		1000								Jula	Rento	033121
NIST Test ID#:		GUTB		5E-05	5E-05 Balance Uncertainty	×			Reviewed Rv.		Dartro I Bantos	
Weight(s) shown below were combined and diluted to (mL):	and dilute	od to (mL):	200.1	0.058	0.058 Flask Uncertainty			_				
									Expanded		SDS Information	
		Lot	Nominal	Purity	Purity Uncertainty	Target	Actual	Actual	Uncertainty	(Solvent S	(Solvent Safety Info. On Attached pg.)	ched pa.)
Compound	RM#	Number	Conc (µg/mL)	(%)	Purity	Weight(g)	Weight(g)	Conc (µg/mL) (+/-) (µg/mL)	(++-) (hg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Arocior 1016	15	15 020491JC	1000	9	0.2	0.20007	0.20025	1000.9	4.1	12674-11-2	NIA	N27A
2. Arocior 1260	21	21 020491JC	1000	8	0.2	0 20007	0 20035	1001 4	Ŧ	11000 00 0	UNI C	VN.
							2222	1.202		0-20-0001	C.Dmo/mg	OILINI 1315ma/km

1

ori-rat 1315mg/kg

0.5mg/m3

11096-82-5

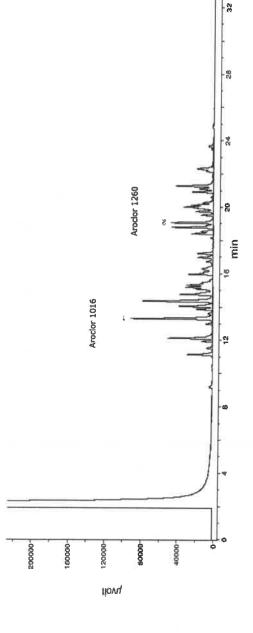
41

- P

- IPI

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 prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 All Standards, after opening ampule, should be stored with cups that and expressing the 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).

Comments GC3-M1 Analysis by Melissa Sharier Column ID SPB-608 30 meller X.0 53mm X5µm film thickness Flow rates: Hellum (carrier) = 50mL/min, Helium (make-up) = 25mL/min Hudogen (make-up) = 30mL/min, Air (make-up) = 350mL/min Weller 1 forgh 1 = 150°C (Time i = 4 min), Temp 2 = 290°C (Time 2 = 13.5 min) Rete = 8 Chmin, Total tu mine = 35 min Injector temp. = 200°C, FID Temp. = 300°C. FID Signal = Ed.aq Channel 1 Standard injection =1.5/4, Range=3



AJ 1116122 012210 102210

1 of 1