



REFERENCE MATERIAL CERTIFICATE

Reference Material

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Product Name

LC PestiMix 2 5 µg/mL in Acetonitrile:Acetone
(94.5:5.5)

Product Code

DRE-A50000083AA

Lot Number

2-G479965

Format

Multicomponent Solution

Expiry Date

8 Jun 2023

Storage

≤ -10 °C

Compound Name	CERTIFIED		CAS	Lot No.	Purity (%)	Amount (mg)	RT (min)
	Conc. (ug/ml)	Uncertainty (ug/ml)					
Fenhexamid	4.947	.059	126833-17-8	1830.421.3.1P	98.94	0.25	
Acephate	4.998	.12	30560-19-1	970.286.1.2P	98	0.26	1.17
Oximino Oxamyl	4.974	.076	30558-43-1	4311.286.1.2P	98	0.25	1.40
Oxydemeton-methyl (demeton-s-	5.026	.12	301-12-2	2310.3.15P	96.2	0.26	1.69
Oxamyl	4.949	.087	23135-22-0	1848.286.1.3	98	0.25	4.95
Methomyl	5.033	.078	16752-77-5	1852.421.3P	99.66	0.25	5.47
Dementon-s-methyl-sulfone	4.97	.075	17040-19-6	2492.421.1P	94.66	0.26	6.61
Dicrotophos	4.974	.057	141-66-2	926.421.1.3P	97.52	0.26	6.82
Thiofanox-sulfoxide	4.963	.068	39184-27-5	4033.421.3P	99.26	0.25	7.36
Metamitron	4.99	.072	41394-05-2	2496.7.1P	99.8	0.25	7.73
Methiocarb Sulfoxide	5.004	.078	2635-10-1	2313.421.1.1P	98.6	0.25	7.85
Methiocarb Sulfone	5.004	.058	2179-25-1	1855.1.1P	98.6	0.25	8.01
Dimethoate	4.993	.068	60-51-5	283.421.2P	99.37	0.25	8.66
Thiofanox-sulfone	4.97	.059	39184-59-3	5603.421.3P	98.91	0.25	8.90
Flucythrinate	5.018	.076	70124-77-5	2055.421.3P	91.66	0.27	9.39
Fensulfothion-oxon	4.92	.057	6552-21-2	4028.286.2P	98.4	0.25	9.60
Ethiofencarb-sulfone	5.013	.063	53380-23-7	4339.3.4P	98.3	0.26	9.86
Hexazinone	5.009	.063	51235-04-2	1176.421.1P	97.74	0.26	10.65
Spirotetramat-mono-hydroxy	4.937	.057	1172134-12-1	7022.286.1.1P	96.8	0.26	10.73
Fenamiphos Sulfoxide	4.988	.067	31972-43-7	1912.421.5P	98.78	0.25	10.80
Fensulfothion-oxon-sulfone	4.974	.057	6132-17-8	4029.286.2.2	99.47	0.25	11.15
Oxadixyl	4.982	.18	77732-09-3	1651.421.2.1P	97.69	0.26	11.34
Phenmedipham	5.035	.12	13684-63-4	2598.286.1.1P	95	0.27	11.35
Pyrimethanil	4.996	.12	53112-28-0	1185.286.1.3P	97	0.26	11.49
Metribuzin	4.998	.12	21087-64-9	1004.286.1P	98	0.26	11.53
Dichlorvos	5.012	.14	62-73-7	572.421.3.1P	98.75	0.25	11.54
Demeton-s-methyl	5.003	.063	919-86-8	1866.3.12P	98.1	0.26	11.69
Dichlofenthion	4.984	.059	97-17-6	483.421.1P	98.7	0.25	11.69
Azamethiphos	4.984	.077	35575-96-3	4361.421.1P	98.7	0.25	11.80
Propoxur	4.981	.073	114-26-1	2042.421.2P	99.62	0.25	12.20

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	Conc. (ug/ml)	Uncertainty (ug/ml)					
Fenamiphos Sulfone	5.026	.064	31972-44-8	2316.421.1P	99.03	0.25	12.39
Climbazol	4.975	.063	38083-17-9	4342.3.1P	99.5	0.25	12.59
1-(4-nitrophenyl)-3-propylure	4.95	.057	13141-86-1	7019.1.2P	100	0.25	12.63
Fenthion Sulfoxide	4.969	.057	3761-41-9	3684.286.1.1	99.37	0.25	12.75
Bentazon	5.065	.06	25057-89-0	1405.421.2.1P	99.81	0.25	13.10
Flurenol-methyl	5.01	.058	1216-44-0	7023.3.2P	99.7	0.25	13.11
Disulfoton Sulfoxide	4.995	.06	2497-07-6	2446.421.5P	99.89	0.25	13.22
Fosthiazate	5.053	.057	98886-44-3	2885.286.1.3	93.15	0.27	13.28
Flutiafol	4.944	.086	76674-21-0	3403.286.1P	96	0.26	13.35
Sulfentrazone	4.949	.087	122836-35-5	4319.286.1P	98	0.25	13.40
Metalaxyl	4.949	.12	57837-19-1	1055.286.1.4P	98	0.25	13.68
Fenfuram	5	.063	24691-80-3	4408.421.1P	99	0.25	13.75
Azaconazole	4.978	.065	60207-31-0	3408.421.2.1P	97.6	0.26	13.78
Cyprofuram	5.028	.17	69581-33-5	7025.421.2P	97.16	0.26	13.96
Heptenophos	4.98	.063	23560-59-0	1631.421.3.1P	95.77	0.26	14.03
Phorate-oxon	5.02	.076	2600-69-3	3892.421.3P	95.61	0.26	14.08
Fenpropimorph 2	4.945	.11	67564-91-4	1863.421.4.2P	93.3	0.27	14.13
2,3,5-trimethacarb	4.976	.062	2655-15-4	2763.3.4P	97.1	0.26	14.18
Fensulfothion	5.036	.074	115-90-2	579.421.6P	98.74	0.26	14.29
Dialifos	5.029	.077	10311-84-9	3602.421.2.1P	98.6	0.26	14.33
Triforine	4.98	.11	26644-46-2	2624.421.1P	85.5	0.29	14.33
Fipronil	4.972	.061	120068-37-3	2048.421.2P	96.55	0.26	14.36
Propachlor	4.974	.11	1918-16-7	563.286.1P	98	0.25	14.42
Chinomethionate	4.931	.085	2439-01-2	2612.421.3P	97.65	0.25	14.42
Sulfosulfuron	4.997	.11	141776-32-1	2810.421.1P	96.1	0.26	14.50
Metazachlor	4.978	.072	67129-08-2	1584.421.2P	98.58	0.25	14.53
Dimethachlor	5.007	.078	50563-36-5	4332.421.2.1P	99.15	0.25	14.66
Bupirimate	5.01	.076	41483-43-6	1673.1.3P	99.7	0.25	14.74
Diphenamid	4.989	.059	957-51-7	1171.421.2.1P	99.78	0.25	14.84
Command (clomazone)	5.084	.06	81777-89-1	1052.421.3P	99.69	0.26	14.91



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Compound Name	CERTIFIED Conc. (ug/ml)	Uncertainty (ug/ml)	CAS	Lot No.	Purity (%)	Amount (mg)	RT (min)
Terbufos-sulfoxide	4.971	.063	10548-10-4	2811.421.2P	98.44	0.25	15.07
Propanil	4.949	.075	709-98-8	645.286.1.1P	98	0.25	15.16
Paclobutrazol (mixture Of Stereo	4.975	.071	76738-62-0	1918.7.1.2P	96.6	0.26	15.30
Disulfoton Sulfone	5	.058	2497-06-5	2445.3.5P	99.5	0.25	15.36
Flurprimidol	4.998	.076	56425-91-3	4493.286.1P	98	0.26	15.46
Isocarbophos	4.987	.063	24353-61-5	3478.421.5P	99.24	0.25	15.47
Prochloraz	4.998	.072	67747-09-5	1652.7.2P	98	0.26	15.53
Triticonazole	4.985	.059	131983-72-7	2774.421.2P	92.75	0.27	15.66
Cyproconazole (mixture Of	4.976	.059	94361-06-5	2047.421.1P	98.54	0.25	15.72
Famphur	5.009	.077	52-85-7	288.421.2P	98.7	0.25	15.79
Cyanophos	5.073	.063	2636-26-2	3286.3.4P	98.5	0.26	15.86
Guthion®	4.989	.1	86-50-0	574.421.1.3P	96.4	0.26	15.90
Spirotetramat	4.976	.11	203313-25-1	4347.286.1.2P	94.78	0.26	15.91
Dimethenamid	4.975	.062	87674-68-8	2037.3.8P	99	0.25	15.98
Fensulfotion-sulfone	5.023	.12	14255-72-2	4030.286.1.3	98	0.26	16.13
Benoxacor	4.95	.062	98730-04-2	3630.421.2P	98.99	0.25	16.14
Fenarimol	4.998	.096	60168-88-9	1063.421.5P	97.05	0.26	16.14
Prothioconazole-desthio	4.976	.059	120983-64-4	3995.421.1P	99.51	0.25	16.25
Fenamiphos	5	.063	22224-92-6	1189.3.4P	99	0.25	16.28
Dimethylvinphos	4.985	.058	2274-67-1	2897.1.5P	99.2	0.25	16.39
Molinate	5.01	.076	2212-67-1	1005.421.2P	99.2	0.25	16.40
Etaconazole	5.002	.065	60207-93-4	2045.421.3.1P	99.05	0.25	16.54
Triadimefon	5.023	.076	43121-43-3	1169.286.1P	98	0.26	16.59
Epoxiconazole (iso)	5.006	.12	133855-98-8	2848.286.1P	98.65	0.25	16.59
Ethoprophos (prophos)	4.972	.059	13194-48-4	478.421.2.2P	97.97	0.25	16.64
Propyzamide (pronamide)	5.001	.058	23950-58-5	296.7.1.1P	97.1	0.26	16.73
Fluquinconazole	5.02	.06	136426-54-5	1817.421.4P	98.92	0.25	16.84
Tetraconazole	4.988	.059	112281-77-3	1842.421.3P	99.26	0.25	16.88
Fenoxaprop	4.95	.062	95617-09-7	4409.421.1.1P	99	0.25	16.89
Terbufos-sulfon	5.052	.06	56070-16-7	1465.421.5P	99.05	0.26	16.92

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Diclobutrazol (mixture Of Stereo	4.999	.076	75736-33-3	2056.421.5.1P	92.15	0.27	16.92
Napropamide	4.975	.063	15299-99-7	1173.3.5P	99.5	0.25	16.94
Epn	4.984	.063	2104-64-5	473.3.6P	98.7	0.25	16.96
Flamprop-methyl (metavane)	4.973	.059	52756-25-9	2698.421.1P	98.97	0.25	17.20
Triflumizole	4.948	.057	68694-11-1	1846.421.2.1P	97.98	0.25	17.21
Flurenol-butyl	4.985	.076	2314-09-2	6819.421.1P	99.7	0.25	17.27
Lambda Cyhalothrin	4.987	.11	91465-08-6	1824.421.5.4P	94.1	0.27	17.33
Hexaconazole	5.012	.06	79983-71-4	1646.421.3P	98.28	0.26	17.34
Fenbuconazole	4.999	.059	114369-43-6	1829.421.4.2P	98.5	0.25	17.35
Penconazol	4.989	.063	66246-88-6	1657.421.4P	98.8	0.25	17.42
Isoprothiolane	5.025	.063	50512-35-1	2902.3.3P	99.5	0.25	17.43
Tebutam	4.96	.067	35256-85-0	3005.421.1.1P	98.7	0.25	17.43
Haloxypop	4.975	.058	69806-34-4	2595.1.1.1P	100	0.25	17.48
S-metolachlor	4.953	.061	87392-12-9	2804.421.1P	98.56	0.25	17.53
Chromafenozide	4.995	.06	143807-66-3	2956.421.3.2P	99.9	0.25	17.54
Metconazole	4.969	.059	125116-23-6	2890.421.1.1P	99.88	0.25	17.57
Oryzalin	4.973	.059	19044-88-3	1917.421.2P	98.48	0.25	17.64
Ditalimfos	5.078	.064	5131-24-8	2182.3.4P	98.6	0.26	17.65
Alachlor	4.942	.076	15972-60-8	552.421.6P	99.34	0.25	17.66
Flurochloridon (iso)	4.985	.061	61213-25-0	2986.421.1P	98.72	0.25	17.73
Flufenacet	4.982	.073	142459-58-3	2517.421.3.2P	98.66	0.25	17.74
Dimoxystrobin	4.936	.073	149961-52-4	4403.421.3.5	99.71	0.25	17.79
Triphenyl Phosphorothionate	4.998	.076	597-82-0	3788.290.1P	98	0.26	17.82
Diniconazole (e Isomer)	4.964	.06	83657-24-3	3950.421.1P	99.28	0.25	17.86
Propiconazol (mixture Of Isomers)	4.989	.12	60207-90-1	1064.286.1.2	97.82	0.26	17.93
Guthion Ethyl	4.997	.074	2642-71-9	1621.421.1.4P	99.45	0.25	17.94
Neburon	4.985	.073	555-37-3	1366.421.2P	99.21	0.25	17.97
Bixafen	4.995	.076	581809-46-3	4585.8.1P	99.9	0.25	18.01
Imibenconazole	4.989	.059	86598-92-7	2886.421.3P	99.29	0.25	18.01
Furmecyclox	4.98	.076	60568-05-0	7024.421.2P	99.6	0.25	18.09



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Edifenphos	4.974	.059	17109-49-8	2864.421.3P	98.49	0.25	18.15
Diflubenzuron	4.971	.11	35367-38-5	644.286.1P	97	0.26	18.15
Isazophos	4.976	.059	42509-80-8	3628.421.5P	99.03	0.25	18.22
Acclonifen	4.991	.082	74070-46-5	2859.421.1P	99.33	0.25	18.45
Beflubutamid	4.997	.059	113614-08-7	4819.421.3P	99.44	0.25	18.47
Carfentrazone-ethyl	4.9	.086	128639-02-1	1911.286.1.1P	98	0.25	18.49
Bromofenvinphos-ethyl	5.026	.076	33399-00-7	4799.421.3P	97.13	0.26	18.53
Kresoxim Methyl	5.011	.076	143390-89-0	1823.286.1.2P	95	0.26	18.60
Isoxadifen-ethyl	4.977	.059	163520-33-0	4315.421.3P	99.05	0.25	18.72
Ipconazole	4.967	.059	125225-28-7	4878.421.4P	98.85	0.25	18.77
Picoxystrobin	5.051	.096	117428-22-5	3765.421.2.3P	99.04	0.26	18.77
Difenoconazole (mixture Of Isomers)	4.979	.073	119446-68-3	1051.421.4.2P	99.58	0.25	18.81
Pyraflufen-ethyl	5.027	.06	129630-19-9	2916.421.1.1P	99.55	0.25	18.97
Fenthion	5.046	.12	55-38-9	1561.286.2P	94.76	0.27	19.07
Etrinfos	4.965	.16	38260-54-7	2622.421.3P	99.3	0.25	19.12
Cadusafos	5.014	.059	95465-99-9	2064.421.5P	97.83	0.26	19.15
Flamprop Isopropyl	4.968	.11	52756-22-6	1643.421.2P	96	0.26	19.17
Propaphos	5.03	.083	7292-16-2	3282.421.3P	97.2	0.26	19.19
Diazinon	5.051	.06	333-41-5	578.421.2P	99.53	0.25	19.19
Cyanofenphos	5.007	.059	13067-93-1	3285.421.3P	98.18	0.26	19.22
Benzoylprop Ethyl	5	.06	22212-55-1	2790.421.3.2P	98.04	0.26	19.36
Pyraclostrobin	4.998	.12	175013-18-0	1920.286.2P	98	0.26	19.50
Coumaphos	5.023	.12	56-72-4	576.286.1.3P	98	0.26	19.50
Fluotrimazol	5.008	.06	31251-03-3	4348.421.3P	98.67	0.25	19.63
Clofentezine	4.973	.085	74115-24-5	2066.421.3.2	98.47	0.25	19.64
Mefenpyr-diethyl	4.974	.057	135590-91-9	4316.286.1P	98	0.25	19.69
Oxadargyl	4.992	.059	39807-15-3	2924.421.2.1P	99.35	0.25	19.70
Hexaflumuron	4.951	.059	86479-06-3	2644.421.2.1P	99.52	0.25	19.79
Chlorpyrifos-methyl	5.008	.06	5598-13-0	1080.421.4.3P	99.67	0.25	20.03
Fenchlorazol-ethyl	5.024	.061	103112-35-2	7026.421.2.1P	98.02	0.26	20.05

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Teflubenzuron	4.974	.062	83121-18-0	2189.421.2.3P	98	0.25	20.06
Haloxypop-methyl	4.986	.059	69806-40-2	2800.421.4P	98.74	0.25	20.10
Prallethrin	5.026	.06	23031-36-9	2963.18.1P	97.6	0.26	20.27
Cloquintocet-mexyl	4.965	.058	99607-70-2	4328.7.1P	99.8	0.25	20.37
Pretilachlor	4.959	.059	51218-49-6	2495.421.3P	99.18	0.25	20.37
Butachlor	5.071	.14	23184-66-9	1003.421.1P	96.59	0.26	20.37
Metrafenone	4.96	.076	220899-03-6	2922.421.3.1P	99.7	0.25	20.43
Isofenphos	5.047	.06	25311-71-1	1627.421.3P	99.45	0.25	20.45
Fluacrypyrim	5	.26	229977-93-9	2947.421.2.1P	99.5	0.25	20.46
Cycloxdim	4.965	.11	101205-02-1	2234.421.3.2P	96.4	0.26	20.57
Quizalofop-p-ethyl	4.942	.071	100646-51-3	1263.421.1.2P	98.84	0.25	20.70
Haloxypop-2-ethoxyethyl	4.975	.063	87237-48-7	2799.3.1P	99.5	0.25	20.95
Tolfenpyrade	4.968	.057	129558-76-5	4780.286.1.4	97.89	0.25	20.95
Cinidon-ethyl	4.982	.08	142891-20-1	4397.421.3.4P	97.2	0.26	21.00
Picolinafen	4.995	.058	137641-05-5	3631.18.1P	99.9	0.25	21.12
Metaflumizone	4.992	.063	139968-49-3	2928.421.1P	99.83	0.25	21.25
Lufenuron	4.977	.061	103055-07-8	1886.421.2P	98.56	0.25	21.26
Tetramethrin	5	.087	7696-12-0	2050.286.1P	99	0.25	21.35
Fluazinam	5.009	.071	79622-59-6	2397.421.4P	98.7	0.25	21.41
Allethrin	5.01	.076	584-79-2	2049.3.3P	99.2	0.25	21.64
Eprinomectin	4.984	.06	123997-26-2	3604.421.1P	97.25	0.26	21.89
Oxadiazon	4.955	.059	19666-30-9	561.421.2P	99.6	0.25	21.91
Furathiocarb	4.965	.057	65907-30-4	1666.341.2P	99.3	0.25	21.94
Tralkoxydim	5.018	.06	87820-88-0	1375.421.1P	99.87	0.25	22.05
Dioxathion (mixture Of Isomers)	5.03	.06	78-34-2	1669.421.3.1P	99.6	0.25	22.15
Pendimethalin	4.989	.076	40487-42-1	1254.421.2P	97.34	0.26	22.15
Chlorpyrifos	5	.063	2921-88-2	543.421.4P	99.5	0.25	22.15
Ethion	5.033	.077	563-12-2	1453.421.4.2P	98.86	0.25	22.28
Fenazaquin	4.998	.087	120928-09-8	1887.286.1.1P	98	0.26	22.37
Chlorthiophos	4.975	.06	60238-56-4	2065.421.4P	97.08	0.26	22.72



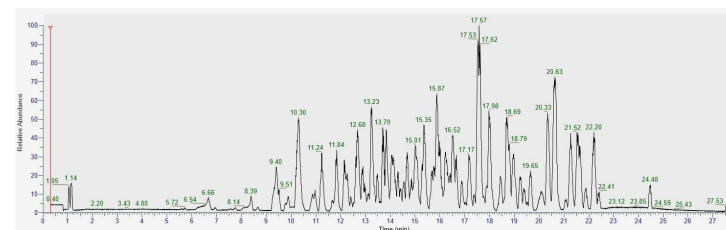
REFERENCE MATERIAL CERTIFICATE

Compound Name	CERTIFIED Conc. (ug/ml)	CERTIFIED Uncertainty (ug/ml)	CAS	Lot No.	Purity (%)	Amount (mg)	RT (min)
Carbophenothion	5	.067	786-19-6	555.421.1.2P	99.5	0.25	22.76
Triallate	4.996	.12	2303-17-5	2120.286.1.1P	98.93	0.25	22.82
Fluroxypyr-meptyl	4.973	.059	81406-37-3	2613.421.1.2P	98.97	0.25	22.83
Thiocarbazyl	4.992	.062	36756-79-3	1674.421.2.4P	99.35	0.25	23.03
Proquinazid	4.98	.061	189278-12-4	5021.421.1.1P	99.1	0.25	23.29
Abamectin	5.018	.12	71751-41-2	2299.421.1P	96.5	0.26	23.35
2-ethylhexyl Diphenyl Phosphate	4.952	.16	1241-94-7	3789.421.1P	91.7	0.27	23.40
Pyridaben	5.013	.12	96489-71-3	1834.286.1.2P	99.76	0.25	23.66
Tribufos (def)	4.98	.059	78-48-8	1873.421.2P	96.23	0.26	23.97
Empenthrin	5.082	.13	54406-48-3	5170.421.3P	94.54	0.27	24.03
Resmethrin	4.951	.067	10453-86-8	629.421.2.4P	99.52	0.25	24.18
Cyphenothrin	4.978	.057	39515-40-7	4766.1.2P	96.2	0.26	24.27
Doramectin	4.953	.11	117704-25-3	5466.421.2P	93.9	0.26	24.55
Cypermethrin (mix Of Isomers)	5.055	.058	52315-07-8	1624.9.1.1P	99.6	0.25	24.74
Tau-fluvalinate	5.084	.072	102851-06-9	1839.421.4.4P	97.3	0.26	24.74
Phenothrin	4.963	.078	26002-80-2	677.421.1.2P	96.83	0.26	25.04
Bifenthrin	4.974	.076	82657-04-3	1068.421.4P	98	0.25	25.72
Ivermectin	5.059	.077	70288-86-7	3901.286.1P	95	0.27	26.19
Selamectin Impurity B	4.988	.07	165108-07-6	7029.512.2.1P	95	0.26	26.26
Pyridatyl	4.979	.064	179101-81-6	2907.421.2.4P	95.29	0.26	26.32

The producer certifies that this reference material meets the specification stated in this certificate until the expiry date, provided it is stored unopened at the recommended temperature herein. Product warranties for this reference material are set out in the terms and conditions of purchase.

CERTIFIED BY	CERTIFIED ON		RM Release
HuiChen Stavros, Ph.	11 Jul 2022		

CHROMATOGRAM



Instrument
LC/HRMS - Positive Mode

Column/Flow
Vanquish C18+ 100mm x
2.1mm ID 1.5um Particle / 0.2
mL/min

Method Details
Mobile Phase A: Water
w/0.1% Formic Acid
Mobile Phase B: Acetonitrile
w/ 0.1% Formic Acid

Time	%A	%B
0.0	95	5
1.0	95	5
22	5	95
22.25	5	95
28.5	95	5

Method of Preparation: The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by the appropriate analytical techniques.

Batch Information: Solvent: Acetonitrile:Acetone (94.5:5.5), Lot no. 213923:216542, 50 mL

cypermethrin (mix of isomers) : *GC1: 29.6%, GC2: 24.7%, GC3&4: 32.9% flucythrinate : *GC1:49.3%, GC2: 45.6% abamectin : *B1b/A1a : 5.5%. B1a : 94.5% Propiconazol (mixture of isomers) : *GC1:37%, GC2:62%

Intended Use

This RM is intended for use in a laboratory as a calibration and quality control standard or in method development for analytical techniques.

Safety

Proper precautions should be observed while handling. See Safety Data Sheet.

Uncertainty

The certified value(s) and uncertainty(ies) are determined in accordance with EURACHEM/CITAC Guide for "Qualifying Uncertainty in Analytical Measurements, 3rd Edition", with an 95% confidence level (k=2). Uncertainty is based on the Characterization Uncertainty, which includes uncertainties of preparation and purity of neat materials.

Traceability

The balances used for gravimetric measurements are calibrated with weights traceable to the national standards (NIST). The calibration of the balances is verified daily internally and annually by an external accredited calibration service. Only Class A glassware is used for volumetric measurements.

Storage

The RM should be stored in the original sealed bottle at the indicated temperature.

Instructions for Use

The RM should be used shortly after opening to avoid concentration changes due to evaporation. It is recommended to use 1 µL as the minimum sample size. If storage after opening is necessary, it should be transferred to an amber vial with minimum head space and a Teflon lined silicon septum. After opening, please consult your own quality management system for proper use and storage. Visit the support section of our website lgcstandards.com for a series of Dr. Ehrenstorfer Tech Tip videos and frequently asked questions.

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