

▪ Certificate of Analysis ▪

Product: WatR™ Pollution PAH-GC & GCMS
Catalog Number: 4882
Lot No. P222-4882
Certificate Issue Date: January 24, 2014
Expiration Date: April 30, 2016
Revision Number: Original

CERTIFICATION

Parameter	Certified Value ¹	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	µg/L	%	µg/L	µg/L
Acenaphthene	73.7	2.18	35.2 - 79.6	26.0 - 89.8
Acenaphthylene	91.7	1.64	42.5 - 104	32.1 - 114
Anthracene	59.5	2.33	32.7 - 66.6	25.2 - 73.4
Benzo(a)anthracene	44.7	1.86	26.3 - 50.5	20.6 - 55.4
Benzo(a)pyrene	14.8	1.60	7.12 - 17.0	4.20 - 20.0
Benzo(b)fluoranthene	24.4	1.62	13.0 - 28.5	9.19 - 31.8
Benzo(g,h,i)perylene	12.8	2.22	6.90 - 15.5	6.10 - 18.2
Benzo(k)fluoranthene	29.5	1.51	16.5 - 35.4	6.40 - 46.1
Chrysene	44.9	1.43	26.5 - 53.4	20.2 - 57.9
Dibenz(a,h)anthracene	47.7	1.46	25.1 - 59.1	16.9 - 65.0
Fluoranthene	37.6	3.04	21.4 - 42.9	18.8 - 47.9
Fluorene	89.9	1.32	46.9 - 98.0	37.7 - 107
Indeno(1,2,3-cd)pyrene	56.2	2.42	25.7 - 65.2	16.6 - 73.4
Naphthalene	101	1.66	36.6 - 106	24.2 - 119
Phenanthrene	82.0	1.62	46.5 - 91.8	38.3 - 98.6
Pyrene	22.9	1.59	12.8 - 26.8	10.0 - 30.8

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	µg/L	µg/L	%			%
Acenaphthene	73.7	73.2	99.3	2	1647d	96.2



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Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		SRM Number	Recovery
	µg/L	µg/L	%			%
Acenaphthylene	91.7	91.4	99.6	2	1647d	98.1
Anthracene	59.5	88.2	148	2	1647d	95.5
Benzo(a)anthracene	44.7	49.0	110	2	1647d	90.4
Benzo(a)pyrene	14.8	13.2	89.2	3	1647d	90.4
Benzo(b)fluoranthene	24.4	21.9	89.8	2	1647d	90.2
Benzo(g,h,i)perylene	12.8	17.0	132	2	1647d	95.2
Benzo(k)fluoranthene	29.5	34.7	118	2	1647d	107
Chrysene	44.9	51.2	114	2	1647d	94.7
Dibenz(a,h)anthracene	47.7	70.6	148	2	1647d	102
Fluoranthene	37.6	40.3	107	2	1647d	97.1
Fluorene	89.9	92.0	102	2	1647d	91.3
Indeno(1,2,3-cd)pyrene	56.2	83.8	149	2	1647d	99.1
Naphthalene	101	98.0	97.0	2	1647d	104
Phenanthrene	82.0	81.8	99.7	2	1647d	95.1
Pyrene	22.9	24.4	107	2	1647d	92.3



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2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.
3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.
4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.
5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = $[(\% \text{ recovery certified standard})/(\% \text{ recovery NIST SRM})] \times 100$
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.
6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Mike Blades

Quality Officer

Kristina Sanchez

ISO/IEC GUIDE 34:2009

ISO/IEC 17025:2005



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▪ Certificate of Analysis ▪

Product: DMRQA Hardness
Catalog Number: 507
Lot No. Q034-507
Certificate Issue Date: October 09, 2014
Expiration Date: July 31, 2017
Revision Number: Original

CERTIFICATION

Parameter	Certified Value ¹	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/L	%	mg/L	mg/L
Total Suspended Solids	44.6	0.722	36.9 - 47.7	34.0 - 51.5
Calcium	47.2	1.39	42.1 - 51.4	40.1 - 54.3
Magnesium	24.1	0.812	21.4 - 26.5	20.5 - 27.7
Calcium Hardness as CaCO ₃	118	0.720	105 - 130	100 - 136
Total Hardness as CaCO ₃	217	0.720	198 - 232	184 - 250

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/L	mg/L	%			%
Total Suspended Solids	44.6	41.4	92.9	1134	-	-
Calcium	47.2	46.2	97.9	58	3109a	97.8
Magnesium	24.1	23.8	98.7	60	3131a	99.2
Calcium Hardness as CaCO ₃	118	116	98.0	44	3109a	97.5
Total Hardness as CaCO ₃	217	213	97.9	139	3109a/3131a	98.4

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4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAP proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAP compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

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Certifying Officer

Tom Widera



Quality Officer

Kristina Sanchez





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Reference Materials

▪ Certificate of Analysis ▪

Product: WatR™ Supply Mercury
Catalog Number: 666
Lot No. S216-666
Certificate Issue Date: September 18, 2014
Expiration Date: November 30, 2017
Revision Number: Original

CERTIFICATION

Parameter	Certified Value ¹	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	µg/L	%	µg/L	µg/L
Mercury	4.45	4.83	3.39 - 5.47	3.12 - 5.78

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		SRM Number	Recovery
	µg/L	µg/L	%			%
Mercury	4.45	4.71	106	69	3133	98.6

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Page 1 of 2 Lot: S216-666



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Reference Materials

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Certifying Officer

Tom Widera

Quality Officer

Kristina Sanchez

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DataPack™

Lot No. 23046
Aroclor 1242 High level

Certification

PCBs in Oil

Catalog No. 821

Parameter	Certified Value	Performance Acceptance Limits™
	mg/Kg	mg/Kg
Aroclor 1016	< 10	-
Aroclor 1221	< 10	-
Aroclor 1232	< 10	-
Aroclor 1242	205	57.0 - 273
Aroclor 1248	< 10	-
Aroclor 1254	< 10	-
Aroclor 1260	< 10	-

Analytical Verification

Parameter	Certified Value	Mean Recovery		n	NIST SRM Number
	mg/Kg	mg/Kg	%		
Aroclor 1016	< 10	-	-	-	NIST SRM 3075
Aroclor 1221	< 10	-	-	-	NIST SRM not available
Aroclor 1232	< 10	-	-	-	NIST SRM 3076
Aroclor 1242	205	216	105%	3	NIST SRM 3077
Aroclor 1248	< 10	-	-	-	NIST SRM 3078
Aroclor 1254	< 10	-	-	-	NIST SRM 3079
Aroclor 1260	< 10	-	-	-	NIST SRM 3080

The **Certified Values** are the actual 'made-to' concentrations confirmed by ERA analytical verification.

The **Performance Acceptance Limits (PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The **PALs™** reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use these **PALs™** to realistically evaluate your performance against your peers.

The **Analytical Verification** data was generated by ERA, solely. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed.

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DataPack™

Lot No. 24046
Aroclor 1254 High level

Certification

PCBs in Oil

Catalog No. 823

Parameter	Certified Value	Performance Acceptance Limits™
	mg/Kg	mg/Kg
Aroclor 1016	< 10	-
Aroclor 1221	< 10	-
Aroclor 1232	< 10	-
Aroclor 1242	< 10	-
Aroclor 1248	< 10	-
Aroclor 1254	130	39.6 - 170
Aroclor 1260	< 10	-

Analytical Verification

Parameter	Certified Value	Mean Recovery		n	NIST SRM Number
	mg/Kg	mg/Kg	%		
Aroclor 1016	< 10	-	-	-	NIST SRM 3075
Aroclor 1221	< 10	-	-	-	NIST SRM not available
Aroclor 1232	< 10	-	-	-	NIST SRM 3076
Aroclor 1242	< 10	-	-	-	NIST SRM 3077
Aroclor 1248	< 10	-	-	-	NIST SRM 3078
Aroclor 1254	130	128	98.7%	3	NIST SRM 3079
Aroclor 1260	< 10	-	-	-	NIST SRM 3080

The **Certified Values** are the actual 'made-to' concentrations confirmed by ERA analytical verification.

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Reference Materials

▪ Certificate of Analysis ▪

Product: PCBs in Oil
Catalog Number: 825
Lot No. 110814
Certificate Issue Date: November 07, 2014
Expiration Date: August 13, 2017
Revision Number: Original

CERTIFICATION

Parameter	Certified Value ¹	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	%	mg/kg	mg/kg
Aroclor 1242	<1.70	-	-	-
Aroclor 1248	<1.70	-	-	-
Aroclor 1254	<1.60	-	-	-
Aroclor 1260	62.9	14.2	21.1 - 83.6	11.3 - 88.1

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aroclor 1242	<1.70	-	-	-	-	-
Aroclor 1248	<1.70	-	-	-	-	-
Aroclor 1254	<1.60	-	-	-	-	-
Aroclor 1260	62.9	61.5	97.8	5	3080	100

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Reference Materials

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4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points generated solely by ERA compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = $[(\% \text{ recovery certified standard}) / (\% \text{ recovery NIST SRM})] \times 100$

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Certifying Officer

Mike Blades

Quality Officer

Kristina Sanchez

ISO/IEC GUIDE 34:2009

ISO/IEC 17025:2005



Page 2 of 2 Lot: 110814

▪ Certificate of Analysis ▪

Product: WatR™ Supply Carbamate/Carbamoxylloxime Pesticides
Catalog Number: 707
Lot No. S203-707
Certificate Issue Date: January 13, 2014
Expiration Date: April 24, 2016
Revision Number: Original

CERTIFICATION

Parameter	Certified Value ¹	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	µg/L	%	µg/L	µg/L
Aldicarb	69.4	4.28	53.4 - 84.7	52.0 - 86.8
Aldicarb sulfone	26.4	3.06	20.5 - 31.7	19.8 - 33.0
Aldicarb sulfoxide	27.0	2.52	20.7 - 34.3	20.2 - 33.8
Baygon	94.6	2.47	76.9 - 113	76.9 - 112
Carbaryl	42.3	3.47	32.1 - 50.8	31.7 - 52.9
Carbofuran	77.2	2.72	58.7 - 95.0	42.5 - 112
3-Hydroxycarbofuran	53.1	2.44	42.4 - 63.7	42.5 - 63.7
Methiocarb	59.0	2.42	46.1 - 70.2	46.1 - 70.4
Methomyl	72.4	2.84	57.8 - 86.9	57.9 - 86.9
Oxamyl (vydate)	76.6	2.53	59.5 - 91.2	57.4 - 95.8

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		SRM Number	Recovery
	µg/L	µg/L	%			%
Aldicarb	69.4	70.3	101	1	-	-
Aldicarb sulfone	26.4	28.4	107	2	-	-
Aldicarb sulfoxide	27.0	24.9	92.2	1	-	-
Baygon	94.6	95.3	101	1	-	-
Carbaryl	42.3	40.8	96.5	1	-	-
Carbofuran	77.2	76.1	98.6	1	-	-
3-Hydroxycarbofuran	53.1	52.8	99.5	2	-	-
Methiocarb	59.0	57.0	96.6	1	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		SRM Number	Recovery
	µg/L	µg/L	%			%
Methomyl	72.4	72.6	100	2	-	-
Oxamyl (vydate)	76.6	73.0	95.3	1	-	-

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Certifying Officer

Mike Blades



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