

Certificate of Analysis

Product Name: IRSA 5090 Pesticide Standard

Product Number: PPM-5090-1

Lot Issue Date: 15-Dec-2020

Lot Number: 0006577455

Expiration Date: 31-Jan-2023

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
aldrin	000309-00-2	RM00635	100.4 $\pm$ 0.5 μ g/mL
alpha-BHC	000319-84-6	RM14886	100.1 $\pm$ 0.5 μ g/mL
beta-BHC	000319-85-7	RM17110	100.2 $\pm$ 0.5 μ g/mL
gamma-BHC	000058-89-9	RM02694	100.2 $\pm$ 0.5 μ g/mL
delta-BHC	000319-86-8	RM09156	100.3 $\pm$ 0.5 μ g/mL
cis-chlordane	005103-71-9	RM07243	100.3 $\pm$ 0.5 μ g/mL
trans-chlordane	005103-74-2	RM02726	100.3 $\pm$ 0.5 μ g/mL
4,4'-DDD	000072-54-8	RM03682	100.2 $\pm$ 0.5 μ g/mL
4,4'-DDE	000072-55-9	RM02892	100.1 $\pm$ 0.5 μ g/mL
4,4'-DDT	000050-29-3	RM00618	100.3 $\pm$ 0.5 μ g/mL
dieldrin	000060-57-1	RM17245	100.1 $\pm$ 0.5 μ g/mL
endrin	000072-20-8	RM14459	100.4 $\pm$ 0.5 μ g/mL
alachlor	015972-60-8	RM14112	100.4 $\pm$ 0.5 μ g/mL
atrazine	001912-24-9	RM17497	100.4 $\pm$ 0.5 μ g/mL
2,4'-DDD	000053-19-0	RM02888	100.4 $\pm$ 0.5 μ g/mL
2,4'-DDE	003424-82-6	RM15085	100.2 $\pm$ 0.5 μ g/mL
2,4'-DDT	000789-02-6	RM15379	100.1 $\pm$ 0.5 μ g/mL

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isodrin	000465-73-6	RM03076	100.3 ± 0.5 µg/mL
hexachlorobenzene	000118-74-1	RM03125	99.9 ± 0.5 µg/mL
heptachlor	000076-44-8	RM03111	100.2 ± 0.5 µg/mL
heptachlor epoxide - isomer B	001024-57-3	RM17614	100.3 ± 0.5 µg/mL
endosulfan I	000959-98-8	RM17589	100.4 ± 0.5 µg/mL
endosulfan II	033213-65-9	RM14844	100.3 ± 0.5 µg/mL
methoxychlor	000072-43-5	RM14186	100.4 ± 0.5 µg/mL
pentachlorobenzene	000608-93-5	RM03776	100.4 ± 0.5 µg/mL

Matrix: acetone**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/NCCL 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.

ISO 17034 Cert
No. AR-1936RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality
Management System. Cert # 56 100 18560026

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CSD-QA-015.1ISO 17025 Cert
No. AT-1937

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Product Number: PPM-5090-1

Lot Number: 0006577455

Sample lot approver:



Monica Bourgeois
QMS Representative



ISO 17034 Cert
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