



Certificate of Analysis

IRSA 5090 Pesticide Mixture

Product Number: PPM-5090

Page: 1 of 2

Lot Number: CJ-3862

Lot Issue Date: 25-Oct-2012

Expiration Date: 30-Nov-2013

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

Analyte	CAS#	Analyte Lot	True Value
aldrin	000309-00-2	RM00635	100.3 ± 0.5 µg/mL
alpha-BHC	000319-84-6	RM02725	100.2 ± 0.5 µg/mL
beta-BHC	000319-85-7	RM02724	100.1 ± 0.5 µg/mL
gamma-BHC	000058-89-9	RM02694	100.1 ± 0.5 µg/mL
delta-BHC	000319-86-8	RM02723	100.2 ± 0.5 µg/mL
alpha-chlordane	005103-71-9	RM02742	100.1 ± 0.5 µg/mL
gamma-chlordane	005103-74-2	RM02726	100.2 ± 0.5 µg/mL
4,4'-DDD	000072-54-8	RM00615	100.1 ± 0.5 µg/mL
4,4'-DDE	000072-55-9	RM02892	100.3 ± 0.5 µg/mL
4,4'-DDT	000050-29-3	RM02881	100.1 ± 0.5 µg/mL
dieldrin	000060-57-1	RM03957	100.1 ± 0.5 µg/mL
endrin	000072-20-8	RM04132	100.0 ± 0.5 µg/mL
alachlor	015972-60-8	RM05776	100.0 ± 0.5 µg/mL
atrazine	001912-24-9	RM03843	100.3 ± 0.5 µg/mL
2,4'-DDD	000053-19-0	RM02888	100.2 ± 0.5 µg/mL
2,4'-DDE	003424-82-6	RM02765	100.1 ± 0.5 µg/mL
2,4'-DDT	000789-02-6	RM02766	100.3 ± 0.5 µg/mL
isodrin	000465-73-6	RM03076	100.4 ± 0.5 µg/mL
hexachlorobenzene	000118-74-1	RM03125	100.3 ± 0.5 µg/mL

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



ISO 17025:2005
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250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager



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heptachlor	000076-44-8	RM03111	100.2 ± 0.5 µg/mL
heptachlor epoxide - isomer B	001024-57-3	RM05373	100.2 ± 0.5 µg/mL
endosulfan I	000959-98-8	RM05767	100.2 ± 0.5 µg/mL
endosulfan II	033213-65-9	RM02904	100.3 ± 0.5 µg/mL
pentachlorobenzene	000608-93-5	RM03776	100.0 ± 0.5 µg/mL
methoxychlor	000072-43-5	RM04555	100.3 ± 0.5 µg/mL

Matrix: acetone

Storage: Store at Room Temperature (18-25°C). Do Not Refrigerate.

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