



Certificate of Analysis

IRSA 5090 Pesticide Mixture

Product Number: PPM-5090

Page: 1 of 2

Lot Number: CR-0186

Lot Issue Date: 19-Jan-2017

Expiration Date: 28-Feb-2019

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.

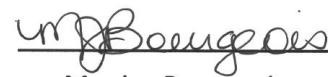
Analyte	CAS#	Analyte Lot	True Value
aldrin	000309-00-2	RM00635	99.9 ± 0.5 µg/mL
alpha-BHC	000319-84-6	RM09239	100.3 ± 0.5 µg/mL
beta-BHC	000319-85-7	RM06986	100.0 ± 0.5 µg/mL
gamma-BHC	000058-89-9	RM02694	99.9 ± 0.5 µg/mL
delta-BHC	000319-86-8	RM09156	100.2 ± 0.5 µg/mL
cis-chlordane	005103-71-9	RM07243	99.7 ± 0.5 µg/mL
trans-chlordane	005103-74-2	RM02726	100.5 ± 0.5 µg/mL
4,4'-DDD	000072-54-8	RM00615	99.9 ± 0.5 µg/mL
4,4'-DDE	000072-55-9	RM02892	99.9 ± 0.5 µg/mL
4,4'-DDT	000050-29-3	RM06888	99.6 ± 0.5 µg/mL
dieldrin	000060-57-1	RM03957	100.0 ± 0.5 µg/mL
endrin	000072-20-8	RM00557	99.6 ± 0.5 µg/mL
alachlor	015972-60-8	RM10831	99.8 ± 0.5 µg/mL
atrazine	001912-24-9	RM10318	99.7 ± 0.5 µg/mL
2,4'-DDD	000053-19-0	RM02888	100.0 ± 0.5 µg/mL
2,4'-DDE	003424-82-6	RM02765	99.9 ± 0.5 µg/mL
2,4'-DDT	000789-02-6	RM02766	100.0 ± 0.5 µg/mL
isodrin	000465-73-6	RM03076	99.8 ± 0.5 µg/mL
hexachlorobenzene	000118-74-1	RM03125	99.9 ± 0.5 µg/mL
heptachlor	000076-44-8	RM03111	99.9 ± 0.5 µg/mL
heptachlor epoxide - isomer B	001024-57-3	RM05373	99.9 ± 0.5 µg/mL
endosulfan I	000959-98-8	RM00834	100.5 ± 0.5 µg/mL
endosulfan II	033213-65-9	RM07039	99.9 ± 0.5 µg/mL
pentachlorobenzene	000608-93-5	RM03776	99.9 ± 0.5 µg/mL
methoxychlor	000072-43-5	RM10269	99.9 ± 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 9001
Registered
TUV USA, Inc.


John Russo
President


Monica Bourgeois
Director of QA/RA



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Matrix: acetone

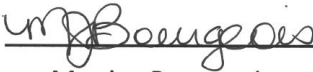
Storage: Store at Room Temperature (15° to 30°C), Do Not Refrigerate.

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.



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