

Certificate of Analysis

Product Name: Organonitrogen Pesticide Standard

Product Number: NPM-520-1

Lot Issue Date: 25-Jun-2020

Lot Number: 0006543207

Expiration Date: 31-Oct-2020

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
alachlor	015972-60-8	RM14112	500.0 $\pm$ 2.5 μ g/mL
ametryn	000834-12-8	RM16462	500.3 $\pm$ 2.5 μ g/mL
atraton	001610-17-9	RM00679	500.2 $\pm$ 2.5 μ g/mL
atrazine	001912-24-9	RM14799	501.9 $\pm$ 2.5 μ g/mL
bromacil	000314-40-9	RM14333	501.1 $\pm$ 2.5 μ g/mL
butachlor	023184-66-9	RM16046	501.7 $\pm$ 2.5 μ g/mL
butylate	002008-41-5	RM15402	502.4 $\pm$ 2.5 μ g/mL
chlorpropham	000101-21-3	RM02736	500.7 $\pm$ 2.5 μ g/mL
cyanazine	021725-46-2	RM15773	500.0 $\pm$ 2.5 μ g/mL
cycloate	001134-23-2	RM02853	501.0 $\pm$ 2.5 μ g/mL
diphenamid	000957-51-7	RM14708	501.5 $\pm$ 2.5 μ g/mL
EPTC	000759-94-4	RM02958	500.3 $\pm$ 2.5 μ g/mL
etridiazole	002593-15-9	RM13165	501.0 $\pm$ 2.5 μ g/mL
fenarimol	060168-88-9	RM13668	500.6 $\pm$ 2.5 μ g/mL
fluridone	059756-60-4	RM13547	500.7 $\pm$ 2.5 μ g/mL
hexazinone	051235-04-2	RM15965	500.6 $\pm$ 2.5 μ g/mL
metolachlor	051218-45-2	RM14834	500.0 $\pm$ 2.5 μ g/mL

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metribuzin	021087-64-9	RM16121	500.7 ± 2.5 µg/mL
MGK-264 (mixed, total)	000113-48-4	RM03143	501.5 ± 2.5 µg/mL
molinate	002212-67-1	RM14835	501.2 ± 2.5 µg/mL
napropamide	015299-99-7	RM15400	501.6 ± 2.5 µg/mL
norflurazon	027314-13-2	RM00675	502.2 ± 2.5 µg/mL
pebulate	001114-71-2	RM12079	501.2 ± 2.5 µg/mL
prometon	001610-18-0	RM15598	500.5 ± 2.5 µg/mL
prometryn	007287-19-6	RM16543	500.5 ± 2.5 µg/mL
pronamide	023950-58-5	RM14691	501.8 ± 2.5 µg/mL
propachlor	001918-16-7	RM15846	500.0 ± 2.5 µg/mL
propazine	000139-40-2	RM14562	500.3 ± 2.5 µg/mL
simazine	000122-34-9	RM00622	502.1 ± 2.5 µg/mL
simetryn	001014-70-6	RM16460	500.7 ± 2.5 µg/mL
tebuthiuron	034014-18-1	RM12946	500.5 ± 2.5 µg/mL
terbacil	005902-51-2	RM03373	502.2 ± 2.5 µg/mL
terbutryn(e)	000886-50-0	RM06258	500.7 ± 2.5 µg/mL
triadimefon	043121-43-3	RM14288	500.9 ± 2.5 µg/mL
tricyclazole	041814-78-2	RM03380	500.4 ± 2.5 µg/mL
trifluralin	001582-09-8	RM09256	500.6 ± 2.5 µg/mL
vernolate	001929-77-7	RM03471	501.1 ± 2.5 µg/mL

Matrix: acetone

Storage Conditions: Store at Room Temperature (15° to 30°C).

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Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL 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.

Sample lot approver:


Monica Bourgeois
QMS Representative



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality
Management System. Cert # 56 100 18560026

Page: 3 of 3

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ISO 17025 Cert
No. AT-1937