

Reference Material Certificate
Product Information Sheet

Product Name: Nitrogen/Phosphorous Pesticide Standard

Lot Number: 0006698148

Product Number: NPM-525C-1

Lot Issue Date: 10-Aug-2022

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

Expiration Date: 30-Sep-2023

Component Name	CERTIFIED VALUES			CAS#	Analyte Lot
	Concentration	Expanded	Uncertainty		
alachlor	100.1	±	0.5 µg/mL	015972-60-8	RM14112
ametryn	100.1	±	0.5 µg/mL	000834-12-8	RM18570
atraton	100.1	±	0.5 µg/mL	001610-17-9	RM00679
atrazine	100.1	±	0.5 µg/mL	001912-24-9	RM17497
bromacil	100.3	±	0.5 µg/mL	000314-40-9	RM18516
butachlor	100.3	±	0.5 µg/mL	023184-66-9	RM18832
butylate	100.2	±	0.5 µg/mL	002008-41-5	RM15656
chlorpropham	100.3	±	0.5 µg/mL	000101-21-3	RM03671
chlorpyrifos	100.1	±	0.5 µg/mL	002921-88-2	RM19801
cycloate	100.4	±	0.5 µg/mL	001134-23-2	RM16258
cyanazine	100.2	±	0.5 µg/mL	021725-46-2	RM18558
dichlorvos	100.1	±	0.5 µg/mL	000062-73-7	RM18318
diphenamid	100.1	±	0.5 µg/mL	000957-51-7	RM18206
EPTC	100.3	±	0.5 µg/mL	000759-94-4	RM02957
ethoprop	100.0	±	0.5 µg/mL	013194-48-4	RM19842
fenarimol	100.5	±	0.5 µg/mL	060168-88-9	RM13668
fluridone	100.2	±	0.5 µg/mL	059756-60-4	RM13547
hexazinone	100.1	±	0.5 µg/mL	051235-04-2	RM19532
methyl paraoxon	100.2	±	0.5 µg/mL	000950-35-6	RM16407
metolachlor	100.5	±	0.5 µg/mL	051218-45-2	RM20184
mevinphos	99.9	±	0.5 µg/mL	007786-34-7	RM18938
MGK-264 (mixed, total)	100.2	±	0.5 µg/mL	000113-48-4	RM20106
molinate	100.1	±	0.5 µg/mL	002212-67-1	RM14835
napropamide	100.1	±	0.5 µg/mL	015299-99-7	RM16223
norflurazon	100.4	±	0.5 µg/mL	027314-13-2	RM00675
pebulate	100.1	±	0.5 µg/mL	001114-71-2	RM13190
prometon	100.1	±	0.5 µg/mL	001610-18-0	RM17206
prometryn	100.1	±	0.5 µg/mL	007287-19-6	RM18571
pronamide	100.1	±	0.5 µg/mL	023950-58-5	RM17904
propachlor	100.4	±	0.5 µg/mL	001918-16-7	RM18557
propazine	100.4	±	0.5 µg/mL	000139-40-2	RM17792
simetryn	100.2	±	0.5 µg/mL	001014-70-6	RM17282
tetrachlorvinphos	100.1	±	0.5 µg/mL	022248-79-9	RM05693
tebuthiuron	100.5	±	0.5 µg/mL	034014-18-1	RM15610

Component Name	CERTIFIED VALUES			CAS#	Analyte Lot
	Concentration	Extended Uncertainty			
terbacil	99.9	± 0.5 µg/mL		005902-51-2	RM03374
terbutryn(e)	100.3	± 0.5 µg/mL		000886-50-0	RM16747
triadimefon	100.1	± 0.5 µg/mL		043121-43-3	RM14288
tricyclazole	100.0	± 0.5 µg/mL		041814-78-2	RM18884
trifluralin	100.4	± 0.5 µg/mL		001582-09-8	RM09256
vernolate	100.2	± 0.5 µg/mL		001929-77-7	RM19647

Matrix: acetone

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard 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 above.

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 analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

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.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard 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.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material 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