

ISO Guide 34 Reference Material

Product Number: PSM-105-I
Lot Number: CM-5371

Lot Issue Date: 15-Oct-2015
Expiration Date: 30-Nov-2017

Product Name: LC Pesticide Solution #7

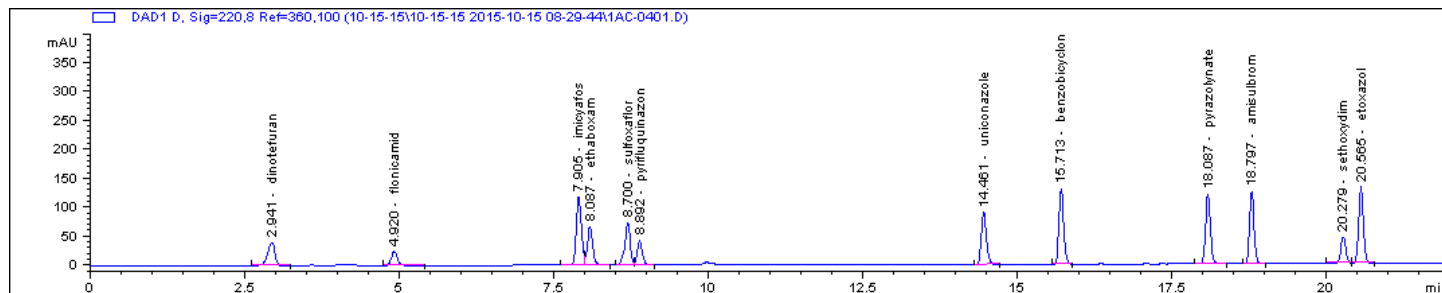
Description:

This Reference Material (RM) was gravimetrically prepared in accordance with ISO Guide 34 and under ULTRA Scientific's ISO 9001 registered quality system. The neat materials used for this product have been verified by ULTRA's ISO 17025 laboratory and under ULTRA's ISO Guide 34 accreditation. The analyte concentrations were verified by ULTRA's ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at the 95% confidence level, is reported below.

Analyte	CAS#	Analyte Lot	Calculated Value	True Value	Traceability & Method
amisulbrom	348635-87-0	RM09886	50.1 µg/mL	54.5 ± 0.8 µg/mL	NW06580;LC/DAD
benzobicyclon	156963-66-5	RM01627	50.0 µg/mL	51.0 ± 1.3 µg/mL	NW06580;LC/DAD
dinotefuran	165252-70-0	RM08195	50.1 µg/mL	51.0 ± 1.3 µg/mL	NW06580;LC/DAD
ethaboxam	162650-77-3	RM07233	50.1 µg/mL	49.6 ± 0.3 µg/mL	NW06580;LC/DAD
etoxazol	153233-91-1	RM10397	50.1 µg/mL	47.9 ± 0.8 µg/mL	NW06580;LC/DAD
flonicamid	158062-67-0	RM09719	49.8 µg/mL	48.5 ± 1.6 µg/mL	NW06580;LC/DAD
imicyafos	140163-89-9	RM09107	50.2 µg/mL	49.9 ± 0.6 µg/mL	NW06580;LC/DAD
pyrazolynate	058011-68-0	RM09047	50.0 µg/mL	45.6 ± 0.6 µg/mL	NW06580;LC/DAD
pyrifluquinazon	337458-27-2	RM08192	50.2 µg/mL	48.1 ± 0.7 µg/mL	NW06580;LC/DAD
sethoxydim	074051-80-2	RM10403	50.0 µg/mL	48.2 ± 1.0 µg/mL	CM-2733;LC/DAD
sulfoxaflo	946578-00-3	RM09597	50.0 µg/mL	49.3 ± 0.6 µg/mL	NW06580;LC/DAD
unicazazole	083657-22-1	RM03467	50.2 µg/mL	49.0 ± 0.6 µg/mL	NW06580;LC/DAD

Solvent: Acetonitrile

Storage: Store Refrigerated (2° - 8°C)



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Traceability:

Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1, ISO 9001, ISO 17025, and ISO Guide 34. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

Estimation of Uncertainties:

The true value is reported, with its uncertainty value calculated at the 95% confidence level.

Homogeneity:

This RM was formulated and 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 and should be processed without delay for the true value to be valid within the stated uncertainties. Each unit contains slightly more than the stated labeled volume to facilitate transfer of the material for testing.

Should crystallization occur after refrigeration, gentle warming (<40°C) and shaking of the container is usually sufficient to re-dissolve the material. If this is unsuccessful, an ultrasonic bath may be used. Solutions containing volatile components (such as gases) should be chilled prior to opening to minimize headspace problems.

Hazards:

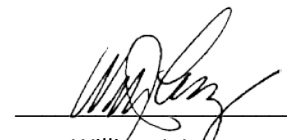
Refer to the Safety Data Sheet for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid, within the measurement uncertainty specified, 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:

The real-time, long term stability of the RM may be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, ULTRA Scientific will notify the purchaser.


William J. Leary
Vice President, QA/RA