

# Matrix reference material

## Catalogue

**June 2024**

*Quality matrix reference materials for identification and calibration are essential to making accurate chemical measurements in testing.*

| **Category** | **Description** | **Identifier** | **Packaging** | **Australian price** | **International****Price** |
| --- | --- | --- | --- | --- | --- |
| Matrix Certified Reference Materials | Ethanol in WaterEthanol 0.61, 1.23 and 4.9 g/kg (corresponding to calibrators to breath alcohol concentrations of 0.005, 0.01 and 0.4 g/210 L of expired air) | # | 500 g Bottle | 110 | # |
| Matrix Certified Reference Materials | Trace Elements in Freeze-Dried Prawn (dry mass basis)As 4.06 ± 0.15 mg/kgCo 0.0932 ± 0.0068 mg/kgCr 1.06 ± 0.18 mg/kgCu 17.1 ± 1.2 mg/kgFe 116 ± 10 mg/kgHg 0.1483 ± 0.0051 mg/kgMn 5.55 ± 0.33 mg/kgNi 0.515 ± 0.070 mg/kgSe 2.78 ± 0.11 mg/kgV 0.281 ± 0.025 mg/kgZn 74.0 ± 4.8 mg/kg | MX009 | 10 g Bottle | 290 | 407 |
| Matrix Certified Reference Materials | Nitrofuran Marker Residues in Freeze-Dried Prawn 3-amino-2-oxazolidinone 137.5 ± 8.5 ng/g | MX012A | 1.2 g Bottle | 303 | 424 |
| Matrix Certified Reference Materials | Nitrofuran Marker Residues in Freeze-Dried Prawn 3-amino-2-oxazolidinone 30.2 ± 1.8 ng/gsemicarbazide 70.3 ± 3.1 µg/g | MX012B | 1.2 g Bottle | 303 | 424 |
| Matrix Certified Reference Materials | Folic acid in Wheat Flour folic acid 2.28 ± 0.13 mg/kg | MX013 | 20 g Jar | 242 | 339 |
| Matrix Certified Reference Materials | Trace Elements in Sea Water As 2.96 ± 0.26 µg/kgCd 1.318 ± 0.034 µg/kgCo 2.864 ± 0.068 µg/kgCr 2.613 ± 0.075 µg/kgCu 2.90 ± 0.25 µg/kgFe 21.70 ± 0.32 µg/kgHg 0.433 ± 0.010 µg/kgMn 1.48 ± 0.16 µg/kgNi 3.66 ± 0.10 µg/kgPb 2.467 ± 0.065 µg/kgSe 3.06 ± 0.26 µg/kgV 4.76 ± 0.12 µg/kg | MX014 | 120 mL Bottle | 290 | 407 |
| Matrix Certified Reference Materials | Hydrocarbon-Contaminated SoilEquivalent Carbon Number >C10 – C16 0.90 ± 0.15 g/kgEquivalent Carbon Number >C16 – C34 7.2 ± 1.1 g/kgEquivalent Carbon Number >C34 – C40 1.1 ± 0.2 g/kgTotal Recoverable Hydtrocarbons >C16 – C40 9.2 ± 1.4 g/kg | MX015 | Jar50 g | 215 | 330 |
| Matrix Reference Materials | PFAS in Soil PFBA 1.70 ± 0.30 µg/kgPFPeA 4.36 ± 0.80 µg/kgPFHxA 17.1 ± 2.5 µg/kgPFHpA 3.47 ± 0.45 µg/kgPFOA 73.1 ± 8.2 µg/kgPFNA 0.253 ± 0.052 µg/kgPFBS 2.18 ± 0.33 µg/kgPFHxS 53.7 ± 7.2 µg/kgPFHxS-Total 61.2 ± 8.2 µg/kgPFOS 910 ± 140 µg/kgPFOS-Total 950 ± 140 µg/kgMeFOSA 2.22 ± 0.37 µg/kgEtFOSE 4.9 ± 1.2 µg/kg6:2 FTS 5.38 ± 0.65 µg/kgAll analytes are linear only unless otherwise specified.Total – Sum of linear and branched isomers. | MX019 | Tube20 g | 264 | 370 |
| Matrix Reference Materials | Pesticides in Tomato PureeBifenthrin 0.289 ± 0.021 mg/kgBuprofezin 0.182 ± 0.017 mg/kgChlorpyrifos 0.781 ± 0.035 mg/kgEndosulfan sulfate 0.615 ± 0.052 mg/kgImidacloprid 0.351 ± 0.029 mg/kgPirimicarb 0.670 ± 0.052 mg/kg   | MX030 | Bottle100 g | 215 | 330 |

# contact proficiency@measurement.gov.au for current batch identifiers and international prices.

### NMI Reference Materials

Reference Materials (RMs) produced by NMI are NATA accredited to ISO 17034:2016(E) and prepared in accordance with our accreditation.

RMs have demonstrated homogeneity and stability and are supplied with:

* Product information sheet
* Safety Data Sheet (SDS)

### NMI Certified Reference Materials

Certified Reference Materials (CRMs) produced by NMI have established metrological traceability to the SI unit for mass (kg).

CRMs have certified purity values, stated as a mass fraction with associated uncertainty and are supplied with:

* Certificate of Analysis (CoA)

### Candidate materials

All care is taken in the storage and handling of these materials however they are not independently certified by NMI.

Individual unit issue size varies depending on the amount available and the difficulty of obtaining the replacement compound. They can be provided with the analytical information available.

### GST charges(Australian customers only)

The prices quoted are EXCLUSIVE of Goods and Services Tax (GST). The current GST rate is 10%. Upon delivery of the requested reference materials NMI will issue valid tax invoices and, if required, adjustment notes as per the requirements of the GST legislation.

### Delivery Fee

Delivery and handling fees apply for all orders and vary with destination. Please check the applicable rates when ordering.

### For further information

 + (612) 9449 0191

 chemref@measurement.gov.au

[www.measurement.gov.au/chemref](http://www.measurement.gov.au/chemref)

NMI reference materials available globally through our international partner:

LGC Standards

Web: [www.lgcstandards.com](http://www.lgcstandards.com)



**NATA logo notice**: Accredited for compliance with ISO 17034. Accreditation No. 198 / Corporate Site No. 14214.