# Australian Government | Department of Industry, Innovation and Science | National Measurement InstituteAgrichemical and Veterinary Drug Reference Materials Catalogue

## NMI reference materials available globally through our international partners:

| Cerilliant logo | LGC logo | Merck logo |
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| **Cerilliant**  [www.cerilliant.com](http://www.cerilliant.com) | **LGC Standards**  [www.lgcstandards.com](http://www.lgcstandards.com) | **Merck**  www.sigmaaldrich.com |

|  | **NMI reference** | | **Unit of issue (mg)** | **Cost (A$)** | |
| --- | --- | --- | --- | --- | --- |
| **Domestic (excl GST)** | **International** |
| **Agrichemicals, key metabolites and surrogates** | | | | | |
| Albendazole sulfoxide | P1792 | | 25 | 250 | 350 |
| Albendazole sulfone | P1793 | | 25 | 250 | 350 |
| Bifenthrin | P1804 | | 20 | 110 | 154 |
| d5-Bifenthrin | P1806 | | 1 | 110 | 154 |
| Carbophenothion sulfoxide | P1726 | | 25 | 250 | 350 |
| Carbophenothion sulfone | P1727 | | 25 | 250 | 350 |
| *cis*-Chlordane | P1624 | | 25 | 171 | 240 |
| *trans*-Chlordane | P1625 | | 25 | 171 | 240 |
| Chlorfluazuron | P1489 | | 100 | 171 | 240 |
| Chlorpyrifos | P1666 | | 250 | 171 | 240 |
| *p*,*p*-DDD | P1311 | | 50 | 141 | 198 |
| *p*,*p*-DDT | P1309 | | 50 | 141 | 198 |
| Dieldrin | P1747 | | 50 | 141 | 198 |
| Dibromo-DDE | P1373b | | 50 | 207 | 290 |
| Difluoro-DDE | P1310b | | 50 | 207 | 290 |
| Dimethoate | P1642 | | 50 | 141 | 198 |
| α-Endosulfan | P1368 | | 50 | 141 | 198 |
| β-Endosulfan | P1369 | | 50 | 141 | 198 |
| Endosulfan diol | P1370 | | 50 | 207 | 290 |
| Endosulfan ether | P1371 | | 25 | 250 | 350 |
| Endosulfan sulfate | P1372 | | 50 | 250 | 350 |
| d4-Endosulfan sulfate | P1803 | | 1 | 171 | 240 |
| Fenbendazole sulfone | P1791 | | 25 | 227 | 315 |
| Fipronil | P1668 | | 50 | 171 | 240 |
| Fipronil sulfone | P1731 | | 25 | 250 | 350 |
| Fluazuron | P1490 | | 100 | 141 | 198 |
| Heptachlor | P1394 | | 50 | 141 | 198 |
| Heptachlor epoxide (exo) | P1395 | | 20 | 171 | 240 |
| HMMNI (nitroimidazole metabolite) | P1296 | | 50 | 250 | 350 |
| Iprodione | P1805 | | 20 | 141 | 198 |
| Ketotriclabendazole | P1725 | | 5 | 281 | 394 |
| Lindane (γ-BHC) | P1332 | | 50 | 141 | 198 |
| Methamidophos | P1760 | | 20 | 207 | 290 |
| d6-Methamidophos | P1712 | | 1 | 171 | 240 |
| Methoxychlor | P1305 | | 100 | 141 | 198 |
| *trans*-Nonachlor | P1623 | | 10 | 207 | 290 |
| Oxychlordane | P1622 | 1 (ampoule) | | 207 | 290 |
| Sulfadiazine | M317 | | 25 | 110 | 154 |
| 2,4,6-Trichlorophenoxyacetic acid | P1375 | | 50 | 171 | 240 |
| Trifluralin | P1408 | | 50 | 141 | 198 |
| Triclabendazole | P1788 | | 10 | 250 | 350 |
| Triclabendazole sulfoxide | P1685 | | 25 | 250 | 350 |
| Triclabendazole sulfone | P1684 | | 25 | 250 | 350 |
| Vamidothion | P1728 | | 25 | 171 | 240 |
| Vamidothion sulfoxide | P1729 | | 25 | 250 | 350 |
| Vamidothion sulfone | P1730 | | 25 | 250 | 350 |
| **Veterinary steroids, growth promotants, antibiotics and key metabolites\*** | | | | | |
| Acepromazine maleate | M259 | | 20 | 110 | 154 |
| 17α-Boldenone (Epiboldenone) | D582 | | 1 | 110 | 154 |
| 17β-Boldenone glucuronide (K+ salt) | D862 | | 1 | 207 | 290 |
| 17β-Boldenone sulfate | D794 | | 5 | 141 | 198 |
| Chloramphenicol glucuronide | D714 | | 1 | 110 | 154 |
| d9-Clenbuterol hydrochloride | M954 | | 1 | 171 | 240 |
| Fluorogestone (Flugestone) | D652 | | 5 | 171 | 240 |
| Megesterol | D651 | | 5 | 171 | 240 |
| Melengestrol | D655 | | 5 | 171 | 240 |
| Melengestrol acetate | D632 | | 50 | 171 | 240 |
| 17α-Nandrolone (Epinandrolone) | D722d | | 1 | 110 | 154 |
| 17β-Nandrolone glucuronide (K+ salt) | D861 | | 1 | 207 | 290 |
| Sulfatroxazole | M890d | | 20 | 110 | 154 |
| 17α-Trenbolone (Epitrenbolone) | D708 | | 5 | 207 | 290 |
| α-Zearalanol | P1801 | | 5 | 110 | 154 |
| β-Zearalanol | P1802 | | 5 | 110 | 154 |
| α-Zearalenol | P1795 | | 5 | 250 | 350 |
| β-Zearalenol | P1796 | | 5 | 250 | 350 |
| Zearalenone | P1787 | | 10 | 171 | 240 |

\*Refer to NMI’s sports doping control reference material catalogues for a full listing of available steroids.

## NOTES

## 1. Classes of Reference Materials available from NMI

### The majority of products listed in this catalogue are classified as reference materials in accordance with the definition detailed in ISO 17034:2016(E) *General requirements for the competence of reference materials producers*.

### 1.1 NMI Reference Materials

Reference Materials (RMs) produced by NMI are prepared in accordance with our accreditation from NATA to ISO 17034:2016(E) *General requirements for the competence of reference materials producers*. RMs are supplied with product information sheets and SDS, and have demonstrated homogeneity and stability.

### 1.2 NMI Certified Reference Materials

Certified Reference Materials (CRMs) produced by NMI have established metrological traceability to the SI unit for mass (kg). All purity values, stated as a mass fraction, are reported with the associated uncertainty in the certificate of analysis.

### 1.3 Other Standards

In addition to materials certified by NMI, we maintain a limited collection of agrichemical and veterinary materials obtained from various sources. They are provided with the most current certification information available. In addition to the minimum fee, purchase costs incurred by NMI to obtain individual compounds are recovered on a pro-rata basis. Individual unit issue size varies depending on the amount available and the difficulty of obtaining replacement compound.

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

**We endeavour to provide material with currently valid certification but cannot do so in all cases.**

## 2. Ampouled Materials

For each ampouled reference material the product information sheet / certificate of analysis will state the mass of analyte dispensed into each ampoule. For reference materials with certified reference material status the mass of analyte will be reported with an associated uncertainty.

## 3. 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.

## 4. Delivery Fee

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

## 5. For further information

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