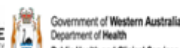


# Australian Milk Residue Analysis (AMRA) Survey

**Annual Report 2024–25**



The Australian Milk Residue Analysis (AMRA) Survey is the independent chemical residue monitoring program for bovine milk, delivered for the Australian Government Department of Agriculture, Fisheries and Forestry and State Regulatory Authorities:



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## Executive summary

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The AMRA Survey (the Survey) is the national residue monitoring program for agricultural, veterinary chemicals and environmental contaminants in bovine milk. The Survey supports the export requirements of the Australian Government Department of Agriculture, Fisheries and Forestry (DAFF) under the *Export Control (Milk and Milk Products) Rules 2021*<sup>1</sup>.

The Survey is funded through DAFF, which also approves the sampling plan. Dairy Food Safety Victoria (DFSV) co-ordinates the Survey on behalf of DAFF.

The Survey is a risk-based program designed to identify and monitor residues from chemical inputs in the Australian milk supply chain. It verifies that the control measures in place are effective in ensuring food safety and provides assurance to both local and international consumers about the safety and quality of Australian dairy products.

The Survey tests randomly selected raw milk samples for a range of residues. Samples are collected from all dairying regions, with the number of samples from each region proportionate to its milk production volume and form a representative sample of the whole industry.

For the 2024-25 Survey, 1001 milk samples were collected and 14,504 analyses were conducted. 100% compliance was achieved with the Australian residue standards.

# Setting of Australian residue standards

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The Australian Pesticides and Veterinary Medicines Authority (APVMA) is the federal authority responsible for the registration of agricultural and veterinary chemicals (agvet chemicals) for supply, sale and use in Australia. The APVMA assesses and approves agvet chemicals for use and sets maximum residue limits (MRLs) for both domestically produced and imported food. MRLs are listed in the *Australia New Zealand Food Standards Code* (ANZFSC)<sup>2</sup> following consideration by Food Standards Australia New Zealand (FSANZ).

The APVMA also sets extraneous residue limits (ERLs), which are the maximum permitted levels of residues in food commodities that result from environmental sources rather than direct agricultural use.

A maximum level (ML) is the level of a specified contaminant or natural toxicant which is permitted to be present in a food and applies to chemicals such as heavy metals and mycotoxins<sup>2</sup>. These are listed in the ANZFSC<sup>2</sup>.

The ANZFSC<sup>2</sup> specifies where no MRL or ERL has been established for a specific agvet chemical residue in a particular food, then no detectable residue of that chemical is permitted. In contrast, if no ML has been set for an environmental contaminant in a food, low levels of that residue are allowed.

## Survey design and sample collection

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The Survey design is risk-based and reflects the agricultural practices of the Australian dairy industry. Samples are collected from all dairying states, with the number of samples from each region proportionate to its milk production volume. The design is guided by the European Union (EU) residue monitoring directives, which provide an established framework for sampling and analysis. The compounds selected for testing reflect the use patterns of agvet chemicals in Australian dairy production and other chemicals of potential interest to Australia's trading partners.

All samples were collected randomly over a twelve-month period on a nationwide basis. Within this random selection, certain sample types contained stratified components based on defined geographic regions, seasonal factors, and historical chemical usage patterns. Samples selected through stratified sampling were analysed specifically for triclofenazole residues. All other milk samples, allocated through random sampling, were tested for antimicrobials, amphenicols, benzimidazoles, levamisole, aflatoxin M1, macrocyclic lactones, organochlorines, organophosphates, synthetic pyrethroids and non-steroidal anti-inflammatory drugs. The number of samples tested and the analyses conducted for the 2024–25 AMRA Survey are listed in Appendix 2.

If a residue is detected in a sample, the laboratory notifies DFSV, which then informs the relevant State Regulatory Authority (SRA) and DAFF. The level of action is set at  $\geq 50\%$  of the Australian or EU MRL/ERL (whichever is the most stringent) or at any detectable level where no MRL or ERL has been established. If a residue is found at or above the level of action the SRA, in cooperation with DAFF and the relevant dairy company, identifies the farms that contributed milk to the affected tanker load. Individual farm samples are then tested to trace the source of the residue. Once the contributing farm or farms are identified, further investigations are conducted to determine the cause of the detection. The dairy company undertakes a trace forward investigation to ensure that dairy products containing residues above the Australian or EU Standard do not enter the respective market. All

aspects of the Survey are subject to audit by DAFF and governments of importing countries. SRAs are responsible for verifying that corrective and preventative activities have been undertaken.

### *Annual Review*

The risk profile of various agricultural, veterinary and environmental contaminants is reviewed annually by representatives from the manufacturing and farming sector, Dairy Australia, SRAs and DAFF. This review focuses on emerging chemical residue risks, changes in chemical use patterns and potential trends. It also provides an opportunity for industry input and helps identify areas for improvement in the survey.

### *Proficiency Testing*

All survey samples are tested by contracted laboratories accredited by the National Association of Testing Authorities (NATA). These laboratories are required to participate in the Milk Laboratory Performance Evaluation Program, which verifies their on-going competency and confirms their proficiency to provide testing for the Survey. The program is administered by the National Residue Survey (NRS), which is accredited by NATA as a Proficiency Testing Scheme Provider.

## Compounds tested

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The Survey includes a range of residue groups including antimicrobials, endoparasiticides, ectoparasiticides, feed and environmental contaminants. The test methods used and the requirements for laboratory approval are detailed in Appendix 3.

### *Amphenicols*

In Australia, chloramphenicol, florfenicol and thiamphenicol are currently not registered for use on dairy cattle. Amphenicols are therefore considered to pose a low risk in the Australian dairy risk profile. 31 random samples were analysed nationally for these residues to verify that off-label use is not occurring and that the risk remains low.

### *Antimicrobials*

Many antimicrobials, excluding amphenicols, are registered for use on dairy cattle in Australia and form part of good agricultural practice for managing bacterial infections in livestock. 300 milk samples were randomly selected for antimicrobial residues across all dairying states. Each of these milk samples was tested for 24 antimicrobial compounds.

### *Animal parasite control chemicals*

Benzimidazoles, levamisole and macrocyclic lactones are important endoparasiticides and may be routinely used on Australian dairy farms in accordance with good agricultural practices. Macrocyclic lactones are the most commonly used group of endoparasiticides. A total of 320 random samples were collected nationally (and tested for these residues (230 macrocyclic lactones, 70 benzimidazoles and 20 levamisole).

Triclabendazole is another endoparasiticide which is predominately used in southern parts of Australia during particular times of the year. 30 samples were randomly sampled from these parts of Australia and monitored for this compound.

In Australia, organophosphates and synthetic pyrethroids in registered veterinary products are used in accordance with good agricultural practice to control external parasites in cattle. A total of 230 random samples were collected nationally and tested for organophosphate and synthetic pyrethroid residues.

### *Feed contaminants*

Organophosphates and synthetic pyrethroids are also used for insect control on harvested and stored food crops such as grains, so residues may enter the milk supply chain through these feeds. Therefore, samples collected to monitor the use of parasite control in dairy cattle also serve to monitor potential feed-related contaminants.

Due to Australia's variable climate, drought conditions are common in some regions. During drought, pasture-based feeding often becomes less sustainable, leading to increased use of supplementary feeds. Some of these feeds may pose a higher risk of aflatoxin B1 contamination, for example, peanut by-products, maize and sorghum. Drought stressed crops and high humidity may promote the growth of *Aspergillus* moulds, which produce aflatoxins. When dairy cattle ingest feeds containing aflatoxin B1 the toxins can be metabolised and excreted in milk as aflatoxin M1. 30 milk samples were tested randomly for the presence of aflatoxin M1 during the 2024–25 year.

### *Environmental contaminants*

Organochlorine pesticides are no longer registered for use in Australia, however they are known to persist and degrade slowly in the environment. From time-to-time cattle may ingest soil containing residues of organochlorines. 30 random samples were collected and analysed for the presence of organochlorine residues.

### *Anti-inflammatory treatments*

Non-steroidal anti-inflammatory drugs (NSAIDs) are used in dairy cattle to reduce inflammation and provide pain relief in cases of infection such as mastitis. 4 NSAID compounds are currently registered for use in dairy cattle in Australia. Although phenylbutazone and oxyphenbutazone are not registered for this use, they are included in the survey verify that off-label use is not occurring. 30 random samples were collected and analysed for residues of flunixin, meloxicam, ketoprofen, tolfenamic acid, phenylbutazone and oxyphenbutazone.

# Report on results

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## *Summary of results*

Results for the 2024–25 Survey are shown in Table 1.

During 2024–25, 1001 milk samples were collected and a total of 14,504 analyses performed. No residues were identified above the relevant Australian standard. One additional sample was reported for this year as it missed last year's submission cut-off date.

One sample was found to contain low levels of clorsulon, the level was identified below 50% of the Australian MRL. Follow up investigation was conducted for EU export purposes. The trace back investigation identified the farm and confirmed that the treatment was used in accordance with label directions.

Table 1 AMRA Survey sample results 2024-25

Compound or Analyte Residue	Number of samples		Level of Action# (µg/kg)	Number of detections at or above Level of Action	Australian Standard* (µg/kg)	Number of results above AU Standard
	Planned	Tested				
<b>Amphenicols</b>						
Chloramphenicol	30	31 <sup>+</sup>	AD	0	Not set	0
Florfenicol	30	31 <sup>+</sup>	AD	0	Not set	0
Florfenicol amine	30	31 <sup>+</sup>	AD	0	Not set	0
Thiamphenicol	30	31 <sup>+</sup>	AD	0	Not set	0
<b>Antimicrobials</b>						
<b>B-lactams</b>						
Benzyl G Penicillin	300	300	1	0	1.5	0
Cloxacillin	300	300	10	0	10	0
Ampicillin	300	300	4	0	10	0
Amoxicillin	300	300	4	0	10	0
<b>Cephalosporins</b>						
Ceftiofur	300	300	50	0	100	0
Cefuroxime	300	300	20	0	100	0
Cephalonium	300	300	10	0	20	0
Cephapirin	300	300	5	0	10	0
Cephazolin	300	300	AD	0	Not set	0
<b>Tetracyclines</b>						
Tetracycline	300	300	50	0	100	0
Oxytetracycline	300	300	50	0	100	0
Chlortetracycline	300	300	AD	0	Not set	0
<b>Sulfonamides</b>						
Sulfadiazine	300	300	50	0	100	0
Sulfadimidine	300	300	AD	0	Not set	0
Sulfadoxine	300	300	50	0	100	0
Sulfatroxazole	300	300	50	0	100	0
<b>Macrolides</b>						
Erythromycin	300	300	40	0	40	0
Lincomycin	300	300	50	0	20	0
Oleandomycin	300	300	AD	0	Not set	0
Tylosin	300	300	50	0	50	0
Tilmicosin	300	300	AD	0	Not set	0
<b>Aminoglycosides</b>						
Streptomycin & Dihydrostreptomycin	300	300	100	0	200	0
Neomycin	300	300	750	0	1500	0
Gentamycin	300	300	AD	0	Not set	0
<b>Endoparasiticides and Ectoparasiticides</b>						
<b>Triclabendazole</b>	30	30	5	0	10	0
<b>Benzimidazoles</b>						
Albendazole	70	70	AD	0	Not set	0
Fenbendazole	70	70	5	0	100	0
Oxfendazole	70	70	5	0	100	0
Febantel	70	70	AD	0	Not set	0
Thiabendazole	70	70	25	0	50	0
Clorsulon	70	70	8	1 <sup>A</sup>	1500	0
Nitroxynil	70	70	10	0	500	0
Mebendazole	70	70	5	0	20	0
Monepantel	70	70	5	0	50	0
Praziquantel	70	70	AD	0	Not set	0
<b>Levamisole</b>	20	20	5	0	300	0



Compound or Analyte Residue	Number of samples		Level of Action# (µg/kg)	Number of detections at or above Level of Action	Australian Standard* (µg/kg)	Number of results above AU Standard
	Planned	Tested				
<b>Endoparasiticides and Ectoparasiticides</b>						
<b>Macrocyclic Lactones</b>						
Ivermectin	230	230	5	0	50	0
Abamectin	230	230	5	0	20	0
Doramectin	230	230	5	0	50	0
Moxidectin	230	230	500F	0	2000F	0
Eprinomectin	230	230	10	0	30	0
<b>Ectoparasiticides and Feed Contaminants</b>						
<b>Organophosphates</b>						
Bromophos-ethyl	230	230	AD	0	Not set	0
Chlorpyrifos	230	230	100F	0	200F	0
Chlorpyrifos-methyl	230	230	25F	0	50F	0
Chlorfenvinphos	230	230	100F	0	200F	0
Coumaphos	230	230	80F	0	10	0
Dichlorvos	230	230	2	0	10	0
Diazinon	230	230	250F	0	500F	0
Ethion	230	230	125F	0	500F	0
Fenchlorphos	230	230	AD	0	Not set	0
Fenitrothion	230	230	30F	0	50F	0
Fenthion	230	230	AD	0	Not set	0
Malathion (Maldison)	230	230	250F	0	1000F	0
Parathion-methyl	230	230	AD	0	Not set	0
Pirimiphos-methyl	230	230	5	0	50	0
<b>Synthetic Pyrethroids</b>						
Deltamethrin	230	230	25	0	50	0
Flumethrin	230	230	15	0	50	0
Permethrin	230	230	25	0	50	0
Cypermethrin	230	230	500F	0	1000F	0
Fenvalerate	230	230	20	0	200	0
Cyfluthrin	230	230	10	0	100	0
Cyhalothrin	230	230	250F	0	500F	0
<b>Mycotoxins</b>						
Aflatoxin M1	30	30	0.05	0	-	0
<b>Anti-inflammatory Treatments</b>						
<b>Non-steroidal Anti-inflammatory Drugs</b>						
Flunixin	30	30	AD	0	Not set	0
Meloxicam	30	30	5	0	5	0
Ketoprofen	30	30	25	0	50	0
Tolfenamic acid	30	30	25	0	50	0
Phenylbutazone	30	30	AD	0	Not set	0
Oxyphenbutazone	30	30	AD	0	Not set	0
<b>Environmental Contaminants</b>						
<b>Organochlorines</b>						
Aldrin & Dieldrin	30	30	75F**	0	150F	0
BHC	30	30	50F**	0	100F	0
Chlordane	30	30	30F**	0	50F	0
Lindane	30	30	100F	0	200F	0
DDT	30	30	500F	0	1250F	0
Heptachlor	30	30	50F**	0	150F	0
HCB	30	30	62.5F**	0	500F	0
Endosulfan	30	30	AD	0	Not set	0

<b>F</b>	These analytes are reported in the milk fat.
<b>Not set</b>	No standard has been set for the chemical in milk.
<b>#</b>	Refers to the level where follow up and/or investigatory action is undertaken. The level of action is set at 50% of the Australian or EU MRL whichever is more stringent or at the level of quantitation (LOQ) or at 'any detection' where no MRL has been specified.
<b>*</b>	Food Standards Australia New Zealand. <i>Food Standards Code. Schedules 19, 20 and 21.</i>
<b>AD</b>	Any detection.
<b>-</b>	No upper limit is applicable for the contaminant. Detections of the contaminant at low levels are allowable.
<b>^</b>	Residue identified below 50% of AU MRL, investigation undertaken for export purposes.
<b>+</b>	One additional sample tested since it missed the previous reporting cut-off date.
<b>**</b>	Action level moved to the LOQ of 100F in late November 2024 due to laboratory outsourcing the test.

# Industry residue testing

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In addition to residue monitoring performed in the Survey, many Australian dairy companies carry out their own on-site antimicrobial residue testing. This involves screening for antimicrobial residues from silos, bulk milk tankers, individual farm vat milk and in some cases, finished products.

Bulk milk tanker screening on arrival at the dairy factory is used by companies to determine the acceptability of milk for further processing. Testing of bulk milk silos and finished products is also carried out by some manufacturers as a further precautionary measure.

Testing of individual farm samples is undertaken by most dairy companies, either through routine supplier monitoring by the milk receival company and/or through proactive farmer requests for testing.

Many of these companies that have an on-site laboratory also participate in proficiency programs to verify the accuracy and consistency of their test results.

Nine dairy companies provided an annual summary of their residue test results for analyses performed during the 2024–25 year, which are collated in Tables 2 and 3. This information provides additional evidence that the Australian dairy industry's approach to agricultural and veterinary chemical usage is both responsible and effective in delivering safe food.

## *Antimicrobial residue testing*

Table 2 provides an aggregate summary of antimicrobial residue test results performed by dairy companies on raw milk and finished product for the period 1 July 2024 – 30 June 2025.

A total of 504,828 routine antimicrobial screen tests were performed on raw milk from farms, bulk tankers and bulk silos and 99.94 % of samples had no detectable residues. All dairy companies have documented food safety programs in place which describe how they manage antimicrobial residue detections and other chemical contaminants.

A total of 4,847 samples of finished products were also tested for antimicrobial residues, with no residue detections reported.

*Table 2: Company residue testing results for antimicrobial residues (1 July 2024–30 June 2025)*

Test Type	Number of Samples Analysed	Percentage of Negative Screening Detections (%)
Raw Milk – On-Farm	26,512	99.51
Raw Milk – Bulk Tanker	473,023	99.96
Raw Milk – Silo	5,293	99.96
Finished Product – (includes milk, cream, powders, butter, cheese and concentrates)	4,847	100.00

### *Other residue testing*

Most large and some medium-sized companies conduct other residue testing in addition to antimicrobials. Samples taken from either raw milk or finished products were tested for various chemical residues including aflatoxins, pesticides and environmental contaminants. These results are presented in Table 3 as an aggregate summary.

*Table 3: Company residue testing results for other residues performed on raw milk and finished products (1 July 2024–30 June 2025)*

Test Type	Number of Samples Analysed	Percentage of Negative Detections (%)
Heavy metals	1687	100.00
Aflatoxin M1	1200	100.00
Organophosphates	132	100.00
PCBs	119	98.32
Synthetic pyrethroids	108	100.00
Melamine	99	100.00
QACs	22	100.00
Organochlorines	21	100.00

# National Residue Survey

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The National Residue Survey (NRS) is a monitoring program conducted by DAFF. The program aims to identify and monitor chemical residues in Australian agricultural commodities. The results for the NRS cattle meat and grains program demonstrate a high level of compliance with the ANZFSC<sup>2</sup>, providing additional evidence of good agricultural and veterinary chemical use practices in the participating animal and agricultural production industries.

The *NRS 2023-24 Industry Brochure: National Residue Survey 2023-24 Annual Summary*<sup>3</sup> provides a summary of test results in agricultural products including cattle meat and grain crops. It is estimated that approximately 20% of Australia's meat production is derived from dairy cattle. The analytes tested in the NRS Survey include most of the analytes tested in milk by the AMRA Survey.

## References

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1. Australian Government Department of Agriculture, Fisheries and Forestry, *Export Control (Milk and Milk Products) Rules 2021*, (2021)  
<<https://www.legislation.gov.au/Details/F2021L00304>>
2. Food Standards Australia New Zealand, *Australia New Zealand Food Standards Code. Schedules 19, 20 and 21*, (2024)  
<<https://www.foodstandards.gov.au/code/Pages/default.aspx>>
3. Australian Government Department of Agriculture, Fisheries and Forestry, *NRS 2023-24 Industry Brochure: National Residue Survey 2023-24 Annual Summary*, (2025)  
<<http://www.agriculture.gov.au/ag-farm-food/food/nrs/nrs-results-publications/industry-brochures/summary>>

# Appendices

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## *Appendix 1: Extract from the Export Control (Milk and Milk Products) Rules 2021*

### 5-26 Product standards – general

*Contaminants, chemicals, additives etc.*

- (1) Prescribed milk and milk products and their ingredients must not contain any of the following that does not comply with a requirement of the Food Standards Code:
- (a) a level of metal or non-metal contaminant or a nature toxicant;
  - (b) an amount of agricultural or veterinary chemical;
  - (c) a food additive, processing aid, vitamin, mineral, added nutrient, or other matter or substance.

Note 1: For contaminants and natural toxicants, see Standard 1.4.1 and 1.4.4 of the Food Standards Code.

Note 2: For agricultural or veterinary chemicals, see Standard 1.4.2 of the Food Standards Code.

Note 3: For food additives, processing aids and vitamins, see Standards 1.3.1 to 1.3.3 of the Food Standards Code.

- (2) Paragraph (1)(a) does not apply if:
- (a) importing country requirements provide for a maximum level of the contaminant or natural toxicant for the milk or milk products or their ingredients that is different from the Food Standards Code requirement; and
  - (b) the approved arrangement for operations to prepare the milk or milk products provides for a system of controls to be implemented to ensure that the different requirement is complied with; and
  - (c) the system of controls referred to in paragraph (b) of this subsection is implemented in accordance with the approved arrangement.
- (3) Paragraph (1)(b) does not apply if:
- (a) importing country requirements provide for an amount of agricultural or veterinary chemical for the milk or milk products or their ingredients that is different from the Food Standards Code requirement; and
  - (b) the approved arrangement for operations to prepare the milk or milk products provides for a system of controls to be implemented to ensure that the different requirement is complied with; and
  - (c) the system of controls referred to in paragraph (b) of this subsection is implemented in accordance with the approved arrangement.
- (4) Paragraph (1)(c) does not apply if:
- (a) Importing country requirements provide for a food additive, processing aid, vitamin, mineral, added nutrient or other matter or substance for the milk or milk products or their ingredients that is different from the Food Standards Code requirement; and
  - (b) The approved arrangement for operations to prepare the milk or milk products provides for a system of controls to be implemented to ensure that the different requirement is complied with; and
  - (c) The system of controls referred to in paragraph (b) of this subsection is implemented in accordance with the approved arrangement.

*Appendix 2: Number of samples tested in each Australian dairy state by test type for the 2024–25 AMRA Survey*

Residue type	State*						
	VIC	NSW	QLD	TAS	SA	WA	Total
Amphenicols	19	4	1	5	2	0	31
Antimicrobials	182	33	8	39	22	16	300
Organophosphates & Synthetic Pyrethroids	145	32	5	23	18	7	230
Triclabendazole	20	5	0	5	0	0	30
Aflatoxin M1	20	1	2	2	3	2	30
Macrocyclic Lactones	136	27	6	30	19	12	230
Levamisole	8	2	1	5	3	1	20
Benzimidazoles	46	6	2	9	3	4	70
Non-steroidal Anti-inflammatory Drugs	21	4	1	4	0	0	30
Organochlorines	23	1	1	1	4	0	30

Key: \* Australian States: VIC – Victoria; NSW – New South Wales; QLD – Queensland; TAS – Tasmania; SA – South Australia; WA – Western Australia.



### Appendix 3: Contracted laboratories and residue tests performed

The 2024–25 AMRA Survey milk samples were analysed by two nationally accredited laboratories as listed below:

Lab	Residue Type	Test Method
National Measurement Institute 1/153 Bertie St Port Melbourne Vic 3207 Australia	Antimicrobials Screen	Microbial Inhibition Test (MIT) for beta-lactams, tetracyclines, macrolides and aminoglycosides. Thin Layer Chromatography (TLC) for sulphonamides
National Measurement Institute 1/153 Bertie St Port Melbourne Vic 3207 Australia	Antimicrobials Confirmation, Benzimidazoles, Levamisole, Macrocyclic Lactones, Triclabendazole, Aflatoxin M1 and Non-steroidal Anti-inflammatory Drugs	Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)
BVAQ 5/352 Macaulay Road Kensington VIC 3031 Australia	Organochlorines, Organophosphates, Synthetic Pyrethroids	Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS), Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)
BVAQ 5/352 Macaulay Road Kensington VIC 3031 Australia	Amphenicols	Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)

Contracted laboratories are required to be accredited by NATA to ISO/IEC Standard 17025 for the methods used in the AMRA Survey. Laboratories are also required to participate in a laboratory proficiency evaluation program coordinated by the NRS.