



National Residue Survey 2020–21 Chicken



The National Residue Survey (NRS) operates within the Australian Government Department of Agriculture, Water and the Environment, and since 1992 has been funded by industries through levies and direct contracts.

The NRS is an essential part of Australia's pesticide and veterinary medicine residue management framework providing verification of good agricultural practice in support of chemical control-of-use legislation and guidelines.

NRS programs monitor the levels of, and associated risks from, pesticides and veterinary medicine residues and contaminants in Australian food products. The programs help to facilitate and encourage ongoing access to domestic and export markets. NRS supports Australia's primary producers and food processors who provide quality animal, grain and horticulture products which meet both Australian and relevant international standards.

Chicken program overview

The chicken program has been operating for over a decade and is funded by the NRS component of the meat chicken levy. The program involves the testing of Australian chicken tissue samples for veterinary medicines, in particular antimicrobials.

Key points

- ▶ In 2020–21, the overall compliance with Australian standards was 100 percent.
- ▶ Australian chicken producers continue to demonstrate a high degree of good agricultural practice.
- ▶ The National Residue Survey's quality management system is ISO 9001:2015 certified.

The program ensures chicken exports satisfy Australian export certification and importing country requirements. In addition, the program supports industry quality assurance initiatives and enables domestic meat processing facilities to satisfy state and territory government regulatory authority licensing requirements.

Sample collection

The number of samples collected is based on Australian production levels and/or overseas export market requirements.

Samples are collected by authorised government officers at processing establishments from randomly selected carcasses along the processing chain, in accordance with NRS requirements.

Analytical screens

Analytical screens covering pesticides, veterinary medicines and environmental contaminants are developed in consultation with the industry and take into account chemicals registered in Australia, chemical residue profiles, historical residue results and overseas market requirements.

Chicken samples are screened for a range of chemicals, as shown in Table 1.

Results

In 2020–21, a total of 301 chicken samples were collected for analysis. The results were compared with Australian standards and where relevant, international standards.

A summary of chicken sample compliance with Australian standards over the past six years is provided in Table 2. The results highlight excellent compliance with Australian standards and demonstrate the strong commitment of the industry to good agricultural practice. The consistently excellent compliance rates help maintain the reputation and integrity of Australian chicken in domestic and international markets.

The yearly summary datasets for the chicken program are located on the department's website agriculture.gov.au/nrs-results-publications.



TABLE 1 Analytical screens for the chicken program

Analytical screen	Chemical group	Analytes
Veterinary medicines	Antimicrobials	includes aminoglycosides, beta lactams, macrolides, sulfonamides and tetracyclines

TABLE 2 Compliance rates for the past six years relative to Australian standards

Years	Samples collected	Compliance rates (%)
2015–16	330	100
2016–17	301	100
2017–18	300	100
2018–19	301	100
2019–20	300	100
2020–21	301	100



Laboratory selection and performance

The NRS contracts laboratories to analyse animal and plant product samples for pesticide/veterinary medicine residues and environmental contaminants.

Laboratories are selected through the Australian Government tendering process on the basis of their proficiency and value for money. Laboratories must be accredited to international standard ISO/IEC 17025 at commencement of testing.

Contracted laboratories are proficiency tested by the NRS to ensure the validity of their analytical results and technical competence.

The NRS has been accredited by the National Association of Testing Authorities as a proficiency test provider since July 2005.



International export markets

The NRS maintains information on maximum residue limits (MRLs) that apply for Australia and major export markets for industries supported by the NRS. All analysis results are checked for compliance with Australian standards and relevant international MRLs.

For the Australian MRL standard see legislation.gov.au/Series/F2019L01105.

For MRL requirements for some international export markets see links at agriculture.gov.au/nrs-databases.



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