



# National Programme for the Monitoring and Surveillance of Chemical Residues and Contaminants in Milk

Plan for 1 July 2017 to 30 June 2018

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# 1 Preamble

Dairy monitoring and surveillance programmes for substances of interest have been in operation in New Zealand for many years, and a national programme for the monitoring of raw milk was introduced in the 1996/97 dairy season. Since that time the programme has become an official programme under the Dairy Industry (National Residue Monitoring Programme) Regulations 2002, and is administered by the Ministry for Primary Industries (MPI).

New Zealand's dairy monitoring and surveillance programme is better known as the National Chemical Contaminants Programme (NCCP) and is designed to confirm the effectiveness of the regulatory controls in place for ensuring residues and contaminants in milk and manufactured dairy products do not pose a threat to human health; that Good Agricultural Practices (GAP) are being followed; and that relevant importing country requirements will be met. In addition surveys are undertaken as necessary to identify new or emerging risk factors, or enhance the understanding of potential issues and natural background levels for minor components that naturally occur in milk.

The monitoring programme is regarded as confirmation that controls are working effectively and as such it serves as a verification measure and not a primary control measure. The programme is designed to identify where controls may not be working and enable an appropriate investigation to be undertaken to determine the root cause and establish options to correct the situation.

Regulatory response to identified 'control failures' is aimed at motivating not just the individual farmer or dairy processor directly concerned, but the whole sector responsible for the particular control so that the required adjustments can be applied on a national basis if necessary.

The particular substances monitored, the number of samples to be analysed, and the sampling pattern have been determined following consideration of factors relevant to New Zealand dairy production practices. Due consideration has been given to previous monitoring results which have so far indicated that the current controls have been effective in ensuring residues and contaminants in dairy products conform to regulatory limits.

The level of monitoring to some extent also reflects the severity of sanctions currently applied. In New Zealand, dairy risk management programme (RMP) operators apply severe penalties when milk supplies are found to contain residues and contaminants above regulatory limits, and MPI applies strict rules concerning traceback and corrective actions. Additionally, MPI has a strict process for managing any dairy material or product that is determined to contain unacceptable residues or contaminants.

The substantial analysis undertaken per sample enables New Zealand to provide assurances that GAP is being followed and that regulatory limits are met under the New Zealand regulatory framework.

## 2 Sampling plan

Consistent with Codex Alimentarius guidelines, New Zealand applies a scientifically and statistically justified, risk-based approach to monitoring residues and contaminants in raw milk.

The programme consists of three parts, random monitoring, directed surveillance and surveys. The monitoring programme is a non-biased sampling programme and is designed to provide profile information on the occurrence of residues and contaminants in raw milk and colostrum on a national basis.

Unless otherwise stated, sampling under the raw milk random monitoring component is directly from the farm bulk milk tank prior to consolidation or dilution through the collection and manufacturing processes. This ensures that GAP is monitored as well as conformance of each farm to residue and contaminant regulatory limits. This also enables action to be taken should a non-conformance be identified.

When taking surveillance and survey samples of raw milk or other dairy material within the scope of the programme, the samples are collected from the most relevant point, taking into consideration the purpose of the surveillance or survey activity.

### 2.1 STATISTICAL CONFIDENCE

New Zealand uses statistically based sample sizes. In the raw milk monitoring component of the NCCP, the number of samples taken is generally aligned with that required to provide 95% confidence of being able to detect an incidence of non-compliance in the sampled population of 1% or greater. This means that a minimum of 300 official random monitoring samples will be taken each year for analysis of the core substances monitored. This minimum covers all cow herds producing milk eligible for export (over 99% of New Zealand dairy farms). Additional samples are taken on a proportional basis for other species as well as bovine domestic milk.

For substances with a proven history of conformance fewer samples may be collected each season, with ongoing conformance assessed over multiple seasons. For surveys, a smaller number of samples will typically be taken.

### 2.2 SAMPLE NUMBERS

A minimum of 316 random monitoring samples will be taken under the NCCP during the 2017/18 dairy season, comprising 300 random samples of bovine raw milk eligible for export, 6 random samples of milk from other species and 10 directed colostrum samples. In total more than 160,000 individual test results will be reported and reviewed.

Monitoring under the New Zealand programme is equivalent to 1 sample per 38 herds.

These figures do not take into account the additional samples of processed dairy products that are collected and tested.

**Table 1: Farm production 2015-16 (source: New Zealand Dairy Statistics 2015-16)**

	Production figures
Annual milk production	20,914 million litres
Number of dairy herds	11,918
Litres/farm/season	1,754,836
Average milking animals/farm	419

For 2017/18 the core programme consists of more than 500 compounds screened on each routine sample collected. As stated under Section 2 Sampling Plan, additional compounds are tested at a lower frequency due to the nature of the compound, its use, and potential for contamination of milk. Section 2.5 sets out the rationale for the compounds and frequency selected.

## **2.3 RANDOM MONITORING & SEASONAL DISTRIBUTION**

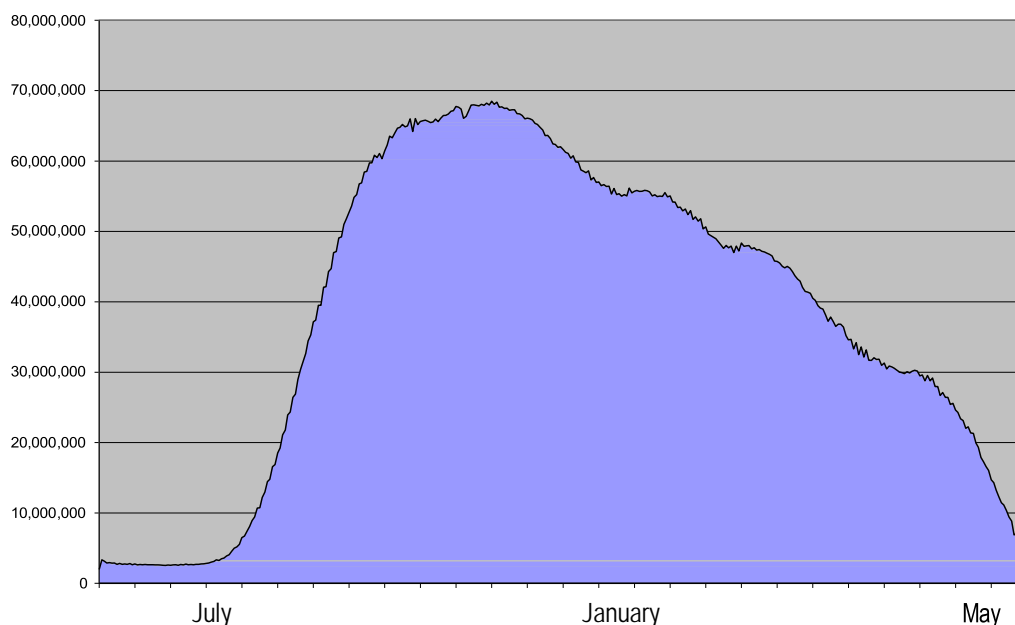
All random raw milk sampling occurs at the farm bulk milk tank unless otherwise stated, and as such monitors the conformance of individual milk producers.

Dairy farming in New Zealand is pasture-based and the milk production pattern is seasonal, following a similar curve to that of pasture production. Accordingly the NCCP operates on a July 1st to June 30th production year.

Figure 1 illustrates the milk supply curve across the dairy season, with approximately 93% of milk produced between August 20th and April 30th each season. A significant proportion of the milk supplied in the period May 1st to August 19th is intended for domestic consumption (as liquid milk and chilled dairy products). None-the-less a small number of NCCP raw milk samples will be obtained over this period.

Raw milk intended for the commercial production of dairy products is derived predominantly from the approximately 5 million lactating cows, as well as a small number from other species. Under the NCCP all species are included for sampling on a proportional basis.

**Figure 1: New Zealand Milk Supply Curve**



## 2.4 DIRECTED (TARGETED) SURVEILLANCE

The surveillance component of NCCP is designed to investigate and assess the conformance of dairy material deemed to be of higher risk based on the risk profile of either the producer, the process or the material which is considered in relation to particular chemical hazards. Targeted sampling is undertaken on the basis of the risk associated with the compound, the existing level of management control, and the likelihood of non-compliance based on information available to MPI through reports, non-compliances, audits and investigations. For 2017/18 targeted sampling will be directed to a minimum of 10 colostrum supplies taken at the farm as this continues to be seen as an indicator for residue carryover from treatments and exposures that may have occurred at drying off and/or over the dry period.

## 2.5 DETERMINATION OF COMPOUNDS TO SCREENED

As NCCP is risk based, the compounds to be analysed in the monitoring programme are dependent upon the risk profile for the particular compound and the most appropriate target compound, marker or metabolite for screening purposes. The compounds to be screened are confirmed following annual review, but may be amended during the season in response to findings, emerging trends or international concerns.

Factors taken into account for any one compound include:

- good agricultural and veterinary practices, including animal husbandry
- extent and pattern of use of the chemical (including risk prone times)
- programmes or controls in place to mitigate the risk of milk becoming affected by chemical hazards
- toxicological significance of the substance
- potential for misuse or abuse
- exposure routes, including feed, environment and evolving farming practices
- persistence in the environment (including risk prone areas)



- previous monitoring frequencies and findings (across MPI, industry programmes and international monitoring)
- availability of a practical, validated analytical method
- emerging substances of growing interest
- international concern for residues of the compound, and
- regulatory requirements of international markets.

Substances which are of interest to importing countries may be included where appropriate, irrespective of whether there is any evidence or likelihood of use or abuse in New Zealand.

## 2.6 ACTION LIMITS

Action limits are established for all residues and contaminants of primary interest in the programme. Where Maximum Residue Limits (MRLs) have been set for residues of agricultural compounds and veterinary medicines, or Maximum Limits (MLs) have been set for other contaminants, the action limit is typically set at the lowest value applied under New Zealand, Codex, and importing country MRLs. Where a compound is not registered or not permitted for use on milking animals, the action limit is typically set at either the minimum reporting limit (LoR), or the limit of detection (LoD). Some compounds are included even though the test method may not detect down to the lowest MRL or ML applied by Codex or an importing country when the result is able to alert MPI to the non-conformance at farm level and/or below action limits, as it will still enable the conformance of milk at delivery to the processing premises to be assessed.

For compounds or chemical elements naturally occurring in raw milk, action limits are set to identify unexpected levels that warrant further investigation.

### 3 Inclusion of Compounds in the 2017/18 NCCP

The following sets out the rationale used when giving consideration for the inclusion of compounds in the 2017/18 NCCP. Additional compounds of interest to New Zealand will be included based on the rationale set out under section 2.5. Lastly, further compounds of lower direct interest are included when multi-residue screening methods are employed. As this last category includes a large number of compounds it serves to provide further confidence that GAP is being applied under New Zealand dairy farming conditions.

During the 2010/11 production season a multi-residue pesticide screen using LC-MS/MS was added to the programme to supplement the GC-MS multi-residue screen historically utilised. For some compounds there will be an overlap with both methods measuring the same compound, but by including both methods, the range of compounds being monitored has increased significantly.

The full list of compounds to be included in the NCCP is provided in section 3.3. For 2017/18 the programme will monitor more than 500 compounds across a range of compound groups. This is similar to recent seasons and represents a 7 fold increase in the number of compounds monitored under the programme since 2002.

#### 3.1 SUBSTANCES HAVING AN ANABOLIC EFFECT & UNAUTHORISED USE (EU GROUP A)<sup>1</sup>

The New Zealand National Chemical Residues Programme for live and slaughtered animals includes screening for trenbolone, stilbenes, steroidal substances and  $\beta$ -agonists. Due to the absence of findings in all animals including dairy animals, the following substances are not deemed to represent a risk in New Zealand dairy material and as such are generally not included in the routine monitoring programme for 2017/18:

- stilbenes, stilbene derivatives, and their salts and esters
- antithyroid agents
- steroids
- resorcylic acid lactones including zeranol, and
- beta-agonists.

#### Compounds for which an MRL cannot be set

**Chloramphenicol:** Registration of chloramphenicol was withdrawn for food-producing animals in 1988. There are no veterinary medicines containing chloramphenicol registered for use in New Zealand, and its use on food-producing animals is not permitted.

Misuse on dairy animals in New Zealand is therefore considered highly unlikely. None-the-less, due to concerns of illegal use of the compound in other countries, chloramphenicol has been included in the NCCP since its inception. For 2017/18, at least 300 random samples will be tested for phenicols.

Use of **chloroform** as an excipient in products was terminated in 2000/01. Immediately prior to this, all products were either reformulated to remove chloroform or the licence was

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<sup>1</sup> COUNCIL DIRECTIVE 96/23/EC of 29 April 1996 on measures to monitor certain substances and residues thereof in live animals and animal products (Annex 1)

cancelled. It is not anticipated that chloroform will be monitored by the NCCP for 2017/18 but it will be considered in future production years.

**Nitrofurans:** There are currently no New Zealand registered products containing furazolidone. Nitrofurazone is only registered in one veterinary medicine, as a treatment for ornamental fish. It is a legal requirement that this product is not to be used on any animal producing, or intended to produce food for human consumption, and this is stated clearly on the label.

Monitoring of the parent compounds nitrofurazone, furazolidone and furaltadone were included in the NCCP until 2005. However, due to international interest, analyses of the nitrofuran metabolites SEM, AOZ, AMOZ and AHD were developed and validated for milk and included in the programme since 2004/05. For 2017/18, at least 300 random samples of will be tested for nitrofurans.

While there is debate regarding the specificity of these metabolites, in particular semicarbazide which has been shown to be present from sources other than nitrofurazone, screening for these metabolites other than semicarbazide is considered to be more reliable than analysis for the parent drugs which are less stable. Screening for semicarbazide is currently considered more convenient than screening for the parent nitrofurazone with a less sensitive method. A more sensitive method is being developed for milk and dairy products and may be introduced once validated.

Because of the status of the nitrofurans (no registered use for dairy cattle) any detection of a metabolite in the absence of the parent drug will initiate immediate traceback procedures to determine whether abuse has occurred. Again, it is specifically noted that semicarbazide will only be used as a trigger for further investigation and on its own is not a conclusive indicator of non-conformance.

**Chlorpromazine, colchicine and dapsone** are not registered for use in New Zealand, and there are no indications for their use. Consequently chlorpromazine, colchicine and dapsone are not included in the NCCP for 2017/18 but may be included in future seasons.

*Aristolochia* species and preparations containing these botanicals have no intentional use on milking animals and as such will not be monitored by the NCCP in 2017/18, but a small number of organic milk samples may be considered for inclusion under directed surveillance in future seasons.

## 3.2 VETERINARY MEDICINES & CONTAMINANTS (EU GROUP B)

**B1 Antibacterial substances, including sulphonamides and quinolones:** The typical dairy farming profile for New Zealand features cows grazed outdoors on pasture all year round, and not permanently housed or held off pasture during lactation, and generally not fed concentrates at levels of significance. They are therefore not exposed to the same level or types of veterinary medicines that are associated with these more intensive husbandry practices. It is noted that there has been a trend toward increased use of supplementary feed, especially imported feed, and these will be assessed as a potential source for residues, contaminants and fungal toxins.

The New Zealand national dairy herd has a relatively low level of mastitis and, when it occurs, treatment with antibiotics during lactation is only one of the control methods advocated in the 'SmartSAMM' programme'<sup>2</sup> (Seasonal Approach to Managing Mastitis, published by DairyNZ). Mastitis treatments in New Zealand are typically restricted veterinary medicines and are under the control of a veterinary professional.

Dairy manufacturers maintain an intensive level of acceptance testing of raw milk, with both screening of tankers and post acceptance testing of individual farm supplies. The 'DPC2: Animal Products (Dairy) Approved Criteria for Farm Dairies'<sup>3</sup> requires that RMP operators test milk from each farm at least three times per month using an approved Inhibitory Substances (antimicrobial) method. The action level for farm bulk milk supplies is set at the limit of detection of the test, 0.003 IU (1.8 ppb) sodium (or potassium) benzyl penicillin or equivalent per ml, a very stringent standard in comparison with other international authorities.

Should a non-conformance be identified, RMP operators are required to apply rigorous follow-up procedures including farm traceback and financial penalties, and these have been shown to achieve a very high level of conformance based on the extensive testing nationally. All manufactured product is also required to be traced in the event of a raw milk non-conformance.

Over the 2017/18 season the dairy industry is expected to undertake some 1.1 million raw milk residue tests, including approximately 650,000 antimicrobial (inhibitory substance) tests on individual farm milk supplies, and 450,000  $\beta$ -lactam tests on tanker milk prior to unloading at the receiving factory.

In addition to this dairy industry routine monitoring, the NCCP will continue to screen individual farm milk supplies for evidence of a range of antimicrobial compounds including penicillins, cephalosporins, aminoglycosides, macrolides, sulphonamides and tetracyclines. Testing under the NCCP includes an inhibitory substances test (coded as IS), a four plate microbial inhibition test (coded as MIT), and an enzyme-linked receptor-binding assay test for tetracyclines (coded as SNAP). For 2017/18, at least 300 random samples will be tested for each of these.

**B2 (a) Anthelmintics:** The NCCP will continue to screen a proportion of milk supplies for benzimidazoles, levamisole and macrocyclic lactones. For 2017/18, 155 random samples will be tested for anthelmintics.

**B2 (b) Anticoccidials, including nitroimidazoles:** Due to the outdoor pastoral farming system in New Zealand dairy production, nitroimidazole compounds are not indicated for use and are not usually included in the NCCP.

Dimetridazole is currently registered for use in poultry and pigs under veterinary supervision. New Zealand's extensive pasture-based husbandry practices would make its use in dairy cattle highly improbable and exposure is unlikely. Metronidazole is currently registered exclusively for the treatment of bacterial infections in cats and dogs. Ronidazole is registered for use in New Zealand in cage birds. Dimetridazole, metronidazole and ronidazole are not included in the NCCP for 2017/18 but may be considered for inclusion in future seasons.

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<sup>2</sup> [https://www.dairynz.co.nz/media/443185/smartsamm\\_brochure.pdf](https://www.dairynz.co.nz/media/443185/smartsamm_brochure.pdf)

<sup>3</sup> <http://www.foodsafety.govt.nz/elibrary/industry/dpc-2.html>

Other anticoccidials are used, and screening for ionophores has been undertaken periodically. For 2017/18, 60 random samples will be tested for a range of anticoccidials.

**B2 (c) Carbamates and pyrethroids:** The risk of contamination by synthetic pyrethroids in New Zealand milk is low due to the extensive pastoral grazing-based animal husbandry system. For 2017/18, at least 300 random samples will be tested for synthetic pyrethroids.

Carbamates have been superseded by other veterinary medicines in New Zealand and are currently only registered for topical use in food-producing animals. However, New Zealand's screening methodology for organophosphates is sensitive to these compounds and any non-conforming results will be actively followed up. Additional surveillance samples for either group will be taken where considered appropriate.

**B2 (d) Sedatives:** As the potential for these compounds to be present in milk is very low they are not included in the NCCP for 2017/18.

**B2 (e) Non-steroidal anti-inflammatory drugs (NSAIDs):** The extensive nature of New Zealand's farming systems and the expense of non-steroidal anti-inflammatory drugs relative to the value of the animals and their restricted veterinary medicine status does not justify extensive use of these products. None-the-less, NSAIDs have been included in the NCCP for a number of years. For 2017/18, 155 random samples will be tested for a range of NSAIDs.

**B3 (a) Organochlorine compounds:** Consistent with previous years, organochlorines will be included in the 2017/18 programme with at least 300 random samples tested. This is primarily to continue monitoring the slow environmental decay of these compounds.

None of the original 12 organochlorines listed under the Stockholm Convention on Persistent Organic Pollutants have been registered or used in New Zealand for a number of years. The sale of dieldrin for use on food-producing animals and or pasture was banned in 1967. In 1970, New Zealand became one of the first countries in the world to ban the use of DDT on pastoral land. However, the metabolites of DDT continue to be periodically identified in milk and milk products from livestock grazing land where DDT was historically applied to control "grass grub" (*Costelytra zealandica*). Residues of DDE, rather than the parent compound DDT, predominate confirming historic rather than recent use of this pesticide in New Zealand.

NCCP will continue to monitor areas where this compound was historically used. In addition, farm dairy RMP operators are required to manage the risks under their programmes and, where necessary, to provide practical information on management techniques to minimise the uptake of the metabolites by milking animals.

New Zealand is not heavily industrialised and so the risk of **dioxin or dioxin-like PCBs** entering the milk supply is very low. This has been confirmed in historic surveys. None the less surveys targeting either high fat dairy products or milk from farms deemed most likely to be at risk are undertaken intermittently. For 2017/18 a small number of samples will be included in a separate survey. Dioxins and dioxin-like PCBs are not included in Table 2: NCCP Raw Milk Monitoring - List of Compounds 2017/18.

**B3 (b) Organophosphorus compounds:** These classes of compounds, registered as veterinary medicines, are used primarily for ectoparasite control in food-producing animals. Many organophosphates are very unlikely to occur as residues in New Zealand milk because animal feeds, which may be treated with organophosphate insecticides, typically represent a very small proportion of the animals diet due to the traditional pasture based grazing systems used for dairy cows. In addition, relatively few cows are housed in barns which might require insecticide treatment. For 2017/18, at least 300 random samples will be tested for organophosphate compounds, as well as synthetic pyrethroids.

**B3 (c) Chemical elements:** Given the relatively low level of industrialisation in New Zealand there is little heavy metal contamination within the environment. As milking cows graze pasture and receive relatively small quantities of feed from external sources, it has been unlikely for contamination to occur through the feed supply. However feeding patterns have been changing with a move to utilising various imported feeds. Accordingly consideration has been given to potential hazards that might carry through into the milk from various possible farming activities including feed.

For 2017/18, at least 300 random samples will be tested for arsenic, cadmium, lead and mercury as well as a range of other elements.

Dairy products that are manufactured using ingredients or additives may contain metals at greater levels than that allowed for, or expected in raw milk. These other elements are assessed for conformance in conjunction with the relevant RMP operator, as well as processing concentration factors and partitioning within milk component streams.

**B3 (d) Mycotoxins:** Aflatoxin M1 in milk is a consequence of milking animals consuming feed that is contaminated with aflatoxin B1. New Zealand pasture, conserved feed, grains and concentrates are very unlikely to contain aflatoxin B1. Year-round climatic conditions ensure that pasture grazing will continue to be the predominant feed supply for New Zealand dairy cows in the medium term. Conserved pasture, hay and silage are traditionally the most commonly supplementary animal feeds. These are harvested on each farm from surplus grass growth during the high growth periods in the spring and early summer (November to January).

Imported plant material such as palm kernel expeller, and to a lesser extent distillers dried grains with solubles, soybean meal, copra and other high carbohydrate feed, has become more significant over recent years. Imported copra contaminated with aflatoxin B1 was identified in 2006 through NCCP raw milk screening and appropriate interventions put in place. Further findings in 2010 were traced to a single imported consignment of copra and in 2013 findings were traced to an isolated shipment of imported almond hulls. In each case remedial action was taken to remove the hazard.

Because of the growth in use of imported feeds the 2017/18 NCCP will test for aflatoxin M1 in all monitoring samples. For 2017/18, 60 random samples will also be tested for mycotoxins.

**B3 (e) Dyes:** As these substances are of low risk they are not included in the NCCP for 2017/18.

**B3 (f) Other Contaminants**

**Radionuclides:** New Zealand dairy products are routinely monitored for radionuclide contamination in conjunction with the national survey undertaken by the National Radiation Laboratory. Monitoring includes Iodine-131, Caesium-134 and Caesium-137, Plutonium-239/240, Americium-241 and Strontium-90. Additional radionuclide testing may also be undertaken according to the requirements of particular markets. Radionuclides are not included in Table 2: NCCP Raw Milk Monitoring - List of Compounds 2017/18.

**Melamine:** This sampling plan has been reviewed and updated in response to the 2008 melamine adulteration situation reported by authorities in China, the subsequent review of toxicological data by various authorities internationally, and the acceptance thresholds established by MPI, Codex and other competent authorities. The sampling plan incorporates melamine solely in response to the current global interest in melamine.

The likelihood of milk in New Zealand being adulterated with melamine for financial gain is extremely low as there is no local source of melamine or melamine waste, and advances in routine milk composition testing would identify an anomaly. Adulteration of raw milk in New Zealand is prohibited and severe penalties apply. Testing under the NCCP has been introduced to confirm the safety and suitability of the national raw milk supply and the dairy products manufactured in New Zealand. A number of additional controls also exist within the regulatory framework to ensure that adulteration or contamination of any kind does not occur.

These controls include:

- Independent assessment (audit) of every farm dairy at least once per season, a proportion of unannounced farm dairy assessments, and verification audits of processing activities from farm through to sale or export. This includes milk factories, stores, transport of milk or product, and milk transfer facilities
- Direct and exclusive contractual relationship between the farm and the processor with the processor typically responsible for the collection of milk from each individual farm. Rejected consignments and or farms under any form of sanction have no other disposal option so all farmers have a very strong commercial incentive to meet the stringent milk integrity parameters set by processors and MPI
- Minimum raw milk monitoring criteria set by MPI, and raw milk acceptance criteria set by both MPI and processors that cover residues and contaminants, microbial parameters, abnormalities and wholesomeness
- The existence of severe economic disincentives. In the event of any non-conforming level of any contaminant or mis-representation of raw milk severe penalties are applied by the milk recipients
- Enforcement action such as prosecution procedures or other sanctions may be initiated by MPI for any illegal activity and MPI has the legal power to direct that any milk or dairy product suspected to be affected be withdrawn or recalled from trade.

Analysis for melamine will be included, but at a reduced frequency for 2017/18 due to the favourable results obtained since testing was introduced in 2008, and the absence of risk factors within the New Zealand milk production environment. For 2017/18, 60 random samples will be tested for melamine.

**Phthalates:** Testing of raw milk and dairy products for phthalates was introduced in the 2011/12 dairy season following reports of deliberate adulteration of food ingredients by two Taiwanese manufacturers. No New Zealand milk or dairy product was affected.

The phthalate DEHP was known to have been included in the formulation of milk liners, a rubberware item used during milking to provide the required flexing of the component. However DEHP was found to migrate into milk products at low levels, and was consequently removed from use in the formulation of rubber components for the milking plant.

Monitoring for phthalates in dairy products will continue to be undertaken periodically. For 2017/18, 60 random samples will be tested for phthalates.

**Quaternary Ammonium Compounds:** Quaternary Ammonium Compounds (QACs) are widely used as surfactants and disinfectants in food processing and several products have been approved for sanitising dairy equipment. More recently QACs have become compounds of interest in some markets, with studies suggesting that residues may carry over in many food products exposed to QACs. This presents an added complication for trade as many dairy products are highly concentrated ingredients, and these concentrated forms usually only represent a minor portion of the final food. For a number of years dairy maintenance compounds containing QACs have been approved in New Zealand with the condition that milk contact surfaces are to be rinsed after use. As such elevated residue levels in milk are not expected, and MPI reviews to date suggest that milk and dairy products never contain QAC residues at levels that might pose a public health risk. For 2017/18, 60 random samples will be tested for QACs.

**Dicyandiamide:** Dicyandiamide (DCD) is a nitrification inhibitor that has the potential to greatly assist pastoral farming by reducing nitrogen loss to the environment and reducing the production of greenhouse gases when applied to pastoral land. However late 2012, as the use of DCD increased, MPI became aware that minor traces of the compound were becoming detectable in concentrated dairy products.

While the levels identified were of absolutely no risk to any consumers of dairy products, there is no agreed international position on residues from the use of DCD. Consequently the use of DCD on land for pastoral farming has ceased and will not be permitted until such time as a maximum residue limit has been agreed internationally. For 2017/18, 60 random samples will be tested for DCD.

**Sodium Monofluoroacetate (1080):** In response to a criminal blackmail threat in November 2014, MPI and New Zealand dairy manufacturers undertook significant testing of raw milk, intermediate products and ingredients and final products for 1080 to confirm with certainty that 1080 was not present in New Zealand raw milk, milk products or formulated milk products for infants and young children. This provided assurance to other Competent Authorities that control measures for the chemical 1080 in New Zealand were, and are appropriate and effective. For 2017/18, 60 random milk samples will be tested for 1080.

**Surveys:** These are undertaken as necessary to identify new or emerging risk factors or enhance the understanding of potential issues and natural background levels for minor components that naturally occur in milk.

### 3.3 COMPOUNDS TO BE MONITORED IN 2017/18

The following tables set out the full list of compounds and chemical elements intended to be monitored under the programme in 2017/18 for raw milk and colostrum respectively.



Table 2: NCCP Raw Milk Monitoring - List of Compounds 2017/18

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
2-Phenylphenol	Milk	306	0.01	0.002	GC-MS/MS	P
Abamectin	Milk	306	0.002	0.002	LC-MS/MS	P
Abamectin	Milk	155	0.003	0.003	LC-MS/MS	AN
Acephate	Milk	306	0.01	0.002	LC-MS/MS	P
Acetamiprid	Milk	306	0.1	0.002	LC-MS/MS	P
Acetamiprid-N-desmethyl	Milk	306	0.01	0.002	LC-MS/MS	P
Acetochlor	Milk	306	0.01	0.002	GC-MS/MS	P
Acibenzolar-S-methyl	Milk	306	0.01	0.005	LC-MS/MS	P
Acrinathrin	Milk	306	0.01	0.002	GC-MS/MS	P
Aflatoxin-B1	Milk	60	0.33 (µg/kg)	0.33 (µg/kg)	HPLC	AF
Aflatoxin-B2	Milk	60	0.03 (µg/kg)	0.03 (µg/kg)	HPLC	AF
Aflatoxin-G1	Milk	60	0.33 (µg/kg)	0.33 (µg/kg)	HPLC	AF
Aflatoxin-G2	Milk	60	0.03 (µg/kg)	0.03 (µg/kg)	HPLC	AF
Aflatoxin-M1	Milk	60	0.05 (µg/kg)	0.018 (µg/kg)	HPLC	AF
Aflatoxin-M1	Milk	306	0.05 (µg/kg)	0.005 (µg/kg)	LC-MS/MS	AF
Aflatoxin-M2	Milk	60	0.05 (µg/kg)	0.009 (µg/kg)	HPLC	AF
AHD (Nitrofurantoin)	Milk	306	0.0003	0.0003	LC-MS/MS	N
Alachlor	Milk	306	0.01	0.002	GC-MS/MS	P
Alanycarb	Milk	306	0.01	0.002	LC-MS/MS	P
Albendazole	Milk	155	0.1	0.001	LC-MS/MS	AN
Albendazole sulfone	Milk	155	0.1	0.001	LC-MS/MS	AN
Albendazole sulfone 2-amino	Milk	155	0.1	0.004	LC-MS/MS	AN
Albendazole sulfoxide	Milk	155	0.1	0.001	LC-MS/MS	AN
Aldicarb	Milk	306	0.01	0.01	LC-MS/MS	P
Aldicarb sulfone	Milk	306	0.01	0.002	LC-MS/MS	P
Aldicarb sulfoxide	Milk	306	0.01	0.002	LC-MS/MS	P
Aldrin	Milk	306	0.006	0.002	GC-MS/MS	P
Allidochlor	Milk	306	0.01	0.005	GC-MS/MS	P
Aluminium	Milk	306	1	0.1	Acid digest/ICPMS	EL
Ametoctradin	Milk	306	0.01	0.002	LC-MS/MS	P
Ametryn	Milk	306	0.01	0.002	GC-MS/MS	P
Aminomethylphosphonic acid (AMPA)	Milk	60	0.05	0.01	LC-MS/MS	O
Amoxicillin	Milk	306	0.004	0.004	Delvotest T**	IS
Amoxicillin	Milk	306	0.004	0.0015	Microbial Inhibition	MIT
AMOZ (Furaltadone)	Milk	306	0.0001	0.0001	LC-MS/MS	N
Ampicillin	Milk	306	0.004	0.002	Delvotest T*	IS
Ampicillin	Milk	306	0.004	0.0015	Microbial Inhibition	MIT
Anilofos	Milk	306	0.01	0.002	GC-MS/MS	P
Anthraquinone	Milk	306	0.01	0.002	GC-MS/MS	P
AOZ (Furazolidone)	Milk	306	0.0001	0.0001	LC-MS/MS	N

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Arsenic	Milk	306	0.01	0.001	TMAH Digestion/ICP MS	EL
Atrazine	Milk	306	0.01	0.002	GC-MS/MS	P
Azaconazole	Milk	306	0.01	0.002	GC-MS/MS	P
Azamethiphos	Milk	306	0.01	0.002	LC-MS/MS	P
Azinphos-methyl	Milk	306	0.01	0.002	GC-MS/MS	P
Azoxystrobin	Milk	306	0.01	0.002	GC-MS/MS	P
Benalaxyl	Milk	306	0.01	0.002	GC-MS/MS	P
Bendiocarb	Milk	306	0.01	0.002	GC-MS/MS	P
Benfluralin	Milk	306	0.01	0.002	GC-MS/MS	P
Benodanil	Milk	306	0.01	0.002	GC-MS/MS	P
Benoxacor	Milk	306	0.01	0.002	GC-MS/MS	P
Bensulfuron-methyl	Milk	306	0.01	0.002	LC-MS/MS	P
Bensulide	Milk	306	0.01	0.002	LC-MS/MS	P
Benzyl butyl phthalate (BBP)	Milk	60	1	0.1	GC-MS/MS	Pht
Benzyl dimethyldodecyl ammonium chloride (BDM-C12)	Milk	60	0.1	0.01	LC-MS/MS	QAC
Betamethasone	Milk	60	0.0003	0.0003	LC-MS/MS	D
BHC (alpha)	Milk	306	0.01	0.002	GC-MS/MS	P
BHC (beta)	Milk	306	0.01	0.002	GC-MS/MS	P
BHC (delta)	Milk	306	0.01	0.002	GC-MS/MS	P
Bifenox	Milk	306	0.01	0.002	GC-MS/MS	P
Bifenthrin	Milk	306	0.1	0.002	GC-MS/MS	P
Bioresmethrin	Milk	306	0.01	0.002	GC-MS/MS	P
Bis(2-ethylhexyl) phthalate (DEHP)	Milk	60	1	0.1	GC-MS/MS	Pht
Bis(2-ethylhexyl) adipate (DEHA)	Milk	60	1	0.1	GC-MS/MS	Pht
Bismuth	Milk	306	0.5	0.001	Acid Digest/ICPMS	EL
Bitertanol	Milk	306	0.05	0.002	GC-MS/MS	P
Boron	Milk	306	1	0.05	Acid digest/ICPMS	EL
Boscalid	Milk	306	0.02	0.002	LC-MS/MS	P
Bromacil	Milk	306	0.01	0.002	GC-MS/MS	P
Bromobutide	Milk	306	0.01	0.002	GC-MS/MS	P
Bromophos	Milk	306	0.01	0.002	GC-MS/MS	P
Bromophos-ethyl	Milk	306	0.01	0.002	GC-MS/MS	P
Bromopropylate	Milk	306	0.01	0.002	GC-MS/MS	P
Bupirimate	Milk	306	0.05	0.002	GC-MS/MS	P
Buprofezin	Milk	306	0.01	0.002	GC-MS/MS	P
Butachlor	Milk	306	0.01	0.002	GC-MS/MS	P
Butafenacil	Milk	306	0.01	0.002	GC-MS/MS	P
Butamifos	Milk	306	0.01	0.002	GC-MS/MS	P
Cadmium	Milk	306	0.1	0.0002	Acid digest/ICPMS	EL
Cadusafos	Milk	306	0.01	0.002	GC-MS/MS	P
Cafenstrole	Milk	306	0.01	0.002	LC-MS/MS	P
Carbaryl	Milk	306	0.01	0.002	GC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Carbendazim	Milk	306	0.01	0.002	LC-MS/MS	P
Carbetamide	Milk	306	0.01	0.002	LC-MS/MS	P
Carbofuran	Milk	306	0.001	0.002	GC-MS/MS	P
Carboxin	Milk	306	0.01	0.002	GC-MS/MS	P
Carfentrazone-ethyl	Milk	306	0.01	0.002	GC-MS/MS	P
Carpropamid	Milk	306	0.01	0.002	LC-MS/MS	P
Cefoperazone	Milk	306	0.05	0.04	Delvotest T**	IS
Cefquinome*	Milk	306	0.02	0.04	Delvotest T**	IS
Ceftiofur	Milk	306	0.1	0.02	Delvotest T**	IS
Ceftiofur	Milk	306	0.1	0.008	Microbial Inhibition	MIT
Cephalexin	Milk	306	0.1	0.02	Delvotest T**	IS
Cephalexin	Milk	306	0.1	0.012	Microbial Inhibition	MIT
Cephalonium	Milk	306	0.02	0.008	Microbial Inhibition	MIT
Cephalonium	Milk	306	0.02	0.02	Delvotest T*	IS
Cephapirin	Milk	306	0.01	0.005	Delvotest T**	IS
Cephuroxime	Milk	306	0.1	0.016	Microbial Inhibition	MIT
Chloramphenicol	Milk	306	0.0001	0.0001	LC-MS/MS	A6
Chlorantraniliprole	Milk	306	0.05	0.002	LC-MS/MS	P
Chlordane-cis	Milk	306	0.002	0.002	GC-MS/MS	P
Chlordane-trans	Milk	306	0.002	0.002	GC-MS/MS	P
Chlorfenapyr	Milk	306	0.01	0.005	GC-MS/MS	P
Chlorfenvinphos	Milk	306	0.01	0.002	GC-MS/MS	P
Chloridazon	Milk	306	0.1	0.002	LC-MS/MS	P
Chlorimuron-ethyl	Milk	306	0.01	0.002	LC-MS/MS	P
Chlorobenzilate	Milk	306	0.1	0.002	GC-MS/MS	P
Chlorotoluron	Milk	306	0.01	0.002	LC-MS/MS	P
Chloroxuron	Milk	306	0.01	0.002	LC-MS/MS	P
Chlorpropham	Milk	306	0.01	0.002	GC-MS/MS	P
Chlorpyrifos	Milk	306	0.01	0.002	GC-MS/MS	P
Chlorpyrifos-methyl	Milk	306	0.01	0.002	GC-MS/MS	P
Chlorsulfuron	Milk	306	0.01	0.005	LC-MS/MS	P
Chlortetracycline	Milk	306	0.01	0.004	Microbial Inhibition	MIT
Chlorthal-dimethyl	Milk	306	0.01	0.002	GC-MS/MS	P
Chlorthiophos	Milk	306	0.01	0.002	GC-MS/MS	P
Chlozolinate	Milk	306	0.01	0.002	GC-MS/MS	P
Chromafenozide	Milk	306	0.01	0.002	LC-MS/MS	P
Chromium	Milk	306	0.3	0.003	Acid digest/ICPMS	EL
Cinidon-ethyl	Milk	306	0.01	0.005	LC-MS/MS	P
Clethodim	Milk	306	0.01	0.002	LC-MS/MS	P
Clodinafop-propargyl	Milk	306	0.01	0.002	GC-MS/MS	P
Clofentezine	Milk	306	0.01	0.005	LC-MS/MS	P
Clomazone	Milk	306	0.01	0.002	GC-MS/MS	P
Cloquintocet-mexyl	Milk	306	0.01	0.002	GC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Clorsulon	Milk	155	0.016	0.016	LC-MS/MS	AN
Clothianidin	Milk	306	0.01	0.005	LC-MS/MS	P
Cloxacillin	Milk	306	0.015	0.015	Delvotest T*	IS
Cobalt	Milk	306	0.1	0.002	Acid digest/ICPMS	EL
Copper	Milk	306	0.15	0.005	Acid digest/ICPMS	EL
Coumaphos	Milk	306	0.01	0.002	GC-MS/MS	P
Coumaphos oxon	Milk	306	0.01	0.002	GC-MS/MS	P
Crufomate	Milk	306	0.01	0.002	GC-MS/MS	P
Cyanazine	Milk	306	0.01	0.002	GC-MS/MS	P
Cyanophos	Milk	306	0.01	0.002	GC-MS/MS	P
Cyantranilprole	Milk	306	0.01	0.002	LC-MS/MS	P
Cyanuric acid	Milk	60	0.1	0.1	LC-MS/MS	O
Cyazofamid	Milk	306	0.01	0.002	LC-MS/MS	P
Cycloate	Milk	306	0.01	0.005	LC-MS/MS	P
Cyclosulfamuron	Milk	306	0.01	0.002	LC-MS/MS	P
Cyflufenamid	Milk	306	0.01	0.005	GC-MS/MS	P
Cyfluthrin	Milk	306	0.01	0.002	GC-MS/MS	P
Cyhalofop-butyl	Milk	306	0.01	0.002	GC-MS/MS	P
Cyhalothrin	Milk	306	0.05	0.002	GC-MS/MS	P
Cymoxanil	Milk	306	0.01	0.005	LC-MS/MS	P
Cypermethrin	Milk	306	0.01	0.002	GC-MS/MS	P
Cyproconazole	Milk	306	0.01	0.002	GC-MS/MS	P
Cyprodinil	Milk	306	0.01	0.002	GC-MS/MS	P
Cyromazine	Milk	306	0.01	0.002	LC-MS/MS	P
Daimuron	Milk	306	0.01	0.002	LC-MS/MS	P
DDD (o,p') ***	Milk	306	0.02	0.002	GC-MS/MS	P
DDD (p,p') ***	Milk	306	0.02	0.002	GC-MS/MS	P
DDE (o,p') ***	Milk	306	0.02	0.002	GC-MS/MS	P
DDE (p,p') ***	Milk	306	0.02	0.002	GC-MS/MS	P
DDT (o,p') ***	Milk	306	0.02	0.002	GC-MS/MS	P
DDT (p,p') ***	Milk	306	0.02	0.002	GC-MS/MS	P
Deltamethrin	Milk	306	0.01	0.002	GC-MS/MS	P
Demeton-S-methyl	Milk	306	0.01	0.002	GC-MS/MS	P
Demeton-S-methyl sulfoxide	Milk	306	0.01	0.002	LC-MS/MS	P
Desmedipham	Milk	306	0.01	0.005	LC-MS/MS	P
Dexamethasone	Milk	60	0.0003	0.0003	LC-MS/MS	D
Diazinon	Milk	306	0.02	0.002	GC-MS/MS	P
Dichlobenil	Milk	306	0.01	0.002	GC-MS/MS	P
Dichlofenthion	Milk	306	0.01	0.002	GC-MS/MS	P
Dichlofluanid	Milk	306	0.01	0.01	LC-MS/MS	P
Dichlorobenzophenone (Dicofol-BP)	Milk	306	0.01	0.002	GC-MS/MS	P
Dichlorvos	Milk	306	0.01	0.002	GC-MS/MS	P
Diclobutrazol	Milk	306	0.01	0.002	GC-MS/MS	P
Diclocymet	Milk	306	0.01	0.002	LC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Diclofop-methyl	Milk	306	0.01	0.002	GC-MS/MS	P
Dicloran	Milk	306	0.01	0.002	GC-MS/MS	P
Diclosulam	Milk	306	0.01	0.002	LC-MS/MS	P
Dicrotophos	Milk	306	0.01	0.002	GC-MS/MS	P
Dicyandiamide (DCD)	Milk	60	0.1	0.05	LC-MS/MS	C
Dicyclanil	Milk	306	0.01	0.005	LC-MS/MS	P
Didecyl phthalate (DDP)	Milk	60	1	0.1	GC-MS/MS	Pht
Dieldrin	Milk	306	0.006	0.002	GC-MS/MS	P
Diethofencarb	Milk	306	0.01	0.002	GC-MS/MS	P
Diethyl phthalate (DEP)	Milk	60	1	0.1	GC-MS/MS	Pht
Difenoconazole	Milk	306	0.005	0.002	GC-MS/MS	P
Diflubenzuron	Milk	306	0.01	0.002	LC-MS/MS	P
Diflufenican	Milk	306	0.01	0.002	GC-MS/MS	P
Dihexyl phthalate (DHXP)	Milk	60	1	0.1	GC-MS/MS	Pht
Dihydrostreptomycin	Milk	306	0.02	0.02	Microbial Inhibition	MIT
Diisobutyl phthalate (DIBP)	Milk	60	1	0.1	GC-MS/MS	Pht
Diisodecyl phthalate (DIDP)	Milk	60	1	0.1	GC-MS/MS	Pht
Diisononyl-phthalate (DINP)	Milk	60	1	0.1	GC-MS/MS	Pht
Diisopropyl phthalate (DIP)	Milk	60	1	0.1	GC-MS/MS	Pht
Dimepiperate	Milk	306	0.01	0.002	GC-MS/MS	P
Dimethenamid	Milk	306	0.01	0.002	GC-MS/MS	P
Dimethoate	Milk	306	0.01	0.002	GC-MS/MS	P
Dimethomorph	Milk	306	0.01	0.002	LC-MS/MS	P
Dimethyl phthalate (DMP)	Milk	60	1	0.1	GC-MS/MS	Pht
Dimethylditetradecylammonium chloride (DM-DC14)	Milk	60	0.1	0.01	LC-MS/MS	OAC
Dimethylvinphos	Milk	306	0.01	0.002	GC-MS/MS	P
Di-n-butyl phthalate (DBP)	Milk	60	0.3	0.1	GC-MS/MS	Pht
Di-n-heptyl phthalate (DNHP)	Milk	60	1	0.1	GC-MS/MS	Pht
Di-n-octyl phthalate (DNOP)	Milk	60	1	0.1	GC-MS/MS	Pht
Di-n-pentyl phthalate (DNPP)	Milk	60	1	0.1	GC-MS/MS	Pht
Dioxabenzofos	Milk	306	0.01	0.002	GC-MS/MS	P
Dioxathion	Milk	306	0.01	0.005	LC-MS/MS	P
Diphenamid	Milk	306	0.01	0.002	GC-MS/MS	P
Diphenylamine	Milk	306	0.01	0.002	GC-MS/MS	P
Disulfoton	Milk	306	0.01	0.002	GC-MS/MS	P
Dithiopyr	Milk	306	0.01	0.002	GC-MS/MS	P
Diuron	Milk	306	0.01	0.002	LC-MS/MS	P
Doramectin	Milk	155	0.003	0.003	LC-MS/MS	AN
Doxycycline	Milk	306	0.04	0.04	Delvotest T**	IS
Edifenphos	Milk	306	0.01	0.002	GC-MS/MS	P
Emamectin benzoate	Milk	306	0.002	0.002	LC-MS/MS	P
Endosulfan (alpha)	Milk	306	0.01	0.002	GC-MS/MS	P
Endosulfan (beta)	Milk	306	0.01	0.002	GC-MS/MS	P
Endosulfan sulfate	Milk	306	0.01	0.002	GC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Endrin*	Milk	306	0.002	0.002	GC-MS/MS	P
Endrin ketone	Milk	306	0.01	0.005	GC-MS/MS	P
EPN	Milk	306	0.01	0.002	GC-MS/MS	P
Epoxiconazole	Milk	306	0.002	0.002	GC-MS/MS	P
Eprinomectin	Milk	155	0.02	0.003	LC-MS/MS	AN
EPTC	Milk	306	0.01	0.002	GC-MS/MS	P
Erythromycin	Milk	306	0.01	0.01	Microbial Inhibition	MIT
Esprocarb	Milk	306	0.01	0.002	GC-MS/MS	P
Ethalfuralin	Milk	306	0.01	0.002	GC-MS/MS	P
Ethametsulfuron-methyl	Milk	306	0.01	0.002	LC-MS/MS	P
Ethiofencarb	Milk	306	0.01	0.002	GC-MS/MS	P
Ethion	Milk	306	0.01	0.002	GC-MS/MS	P
Ethiprole	Milk	306	0.01	0.002	LC-MS/MS	P
Ethofumesate	Milk	306	0.01	0.002	GC-MS/MS	P
Ethoprophos	Milk	306	0.01	0.002	GC-MS/MS	P
Ethoxyquin	Milk	306	0.01	0.002	GC-MS/MS	P
Ethoxysulfuron	Milk	306	0.01	0.002	LC-MS/MS	P
Ethychlozate	Milk	306	0.01	0.002	LC-MS/MS	P
Etobenzanid	Milk	306	0.01	0.002	LC-MS/MS	P
Etoxazole	Milk	306	0.01	0.002	GC-MS/MS	P
Etridiazole	Milk	306	0.01	0.002	GC-MS/MS	P
Etrimfos	Milk	306	0.01	0.002	GC-MS/MS	P
Famoxadone	Milk	306	0.03	0.01	LC-MS/MS	P
Famphur	Milk	306	0.01	0.002	GC-MS/MS	P
Fenamidone	Milk	306	0.01	0.002	LC-MS/MS	P
Fenamiphos	Milk	306	0.002	0.002	LC-MS/MS	P
Fenarimol	Milk	306	0.01	0.002	GC-MS/MS	P
Fenbendazole	Milk	155	0.01	0.001	LC-MS/MS	AN
Fenbendazole sulfone	Milk	155	0.01	0.001	LC-MS/MS	AN
Fenbendazole sulfoxide	Milk	155	0.01	0.001	LC-MS/MS	AN
Fenbuconazole	Milk	306	0.01	0.002	LC-MS/MS	P
Fenchlorphos	Milk	306	0.01	0.002	GC-MS/MS	P
Fenhexamid	Milk	306	0.01	0.002	LC-MS/MS	P
Fenitrothion	Milk	306	0.01	0.002	GC-MS/MS	P
Fenobucarb	Milk	306	0.01	0.002	GC-MS/MS	P
Fenothiocarb	Milk	306	0.01	0.002	LC-MS/MS	P
Fenoxanil	Milk	306	0.01	0.002	GC-MS/MS	P
Fenoxaprop	Milk	306	0.01	0.005	LC-MS/MS	P
Fenoxaprop-ethyl	Milk	306	0.01	0.002	GC-MS/MS	P
Fenoxycarb	Milk	306	0.01	0.002	GC-MS/MS	P
Fenpiclonil	Milk	306	0.01	0.002	GC-MS/MS	P
Fenpropadin	Milk	306	0.005	0.002	LC-MS/MS	P
Fenpropathrin	Milk	306	0.01	0.002	GC-MS/MS	P
Fenpropimorph	Milk	306	0.01	0.002	GC-MS/MS	P
Fenpyroximate	Milk	306	0.01	0.002	LC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Fensulfthion	Milk	306	0.01	0.002	GC-MS/MS	P
Fenthion	Milk	306	0.01	0.002	GC-MS/MS	P
Fenthion oxon	Milk	306	0.01	0.002	LC-MS/MS	P
Fenthion oxon sulfone	Milk	306	0.01	0.005	LC-MS/MS	P
Fenthion oxon sulfoxide	Milk	306	0.01	0.002	LC-MS/MS	P
Fenthion sulfone	Milk	306	0.01	0.002	GC-MS/MS	P
Fenthion sulfoxide	Milk	306	0.01	0.002	GC-MS/MS	P
Fenthion-ethyl	Milk	306	0.01	0.002	GC-MS/MS	P
Fentrazamide	Milk	306	0.01	0.01	LC-MS/MS	P
Fenvalerate	Milk	306	0.01	0.002	GC-MS/MS	P
Ferimzone	Milk	306	0.01	0.002	LC-MS/MS	P
Fipronil	Milk	306	0.01	0.002	GC-MS/MS	P
Fipronil sulfide	Milk	306	0.01	0.002	LC-MS/MS	P
Fipronil sulfone	Milk	306	0.01	0.002	LC-MS/MS	P
Flamprop	Milk	306	0.01	0.002	LC-MS/MS	P
Flamprop-methyl	Milk	306	0.01	0.002	GC-MS/MS	P
Flazasulfuron	Milk	306	0.01	0.002	LC-MS/MS	P
Florfenicol	Milk	306	0.0007	0.0007	LC-MS/MS	A6
Fluacrypyrim	Milk	306	0.01	0.002	GC-MS/MS	P
Fluazifop-P-butyl	Milk	306	0.01	0.002	GC-MS/MS	P
Flubendazole	Milk	306	0.01	0.002	LC-MS/MS	P
Flubendazole	Milk	155	0.1	0.001	LC-MS/MS	AN
Flubendazole amine	Milk	155	0.1	0.002	LC-MS/MS	AN
Flubendiamide	Milk	306	0.1	0.02	LC-MS/MS	P
Flucythrinate	Milk	306	0.01	0.002	GC-MS/MS	P
Fludioxonil	Milk	306	0.01	0.005	LC-MS/MS	P
Flufenacet	Milk	306	0.01	0.002	LC-MS/MS	P
Flumethrin	Milk	306	0.03	0.005	GC-ECD	P
Flumiclorac-pentyl	Milk	306	0.01	0.002	GC-MS/MS	P
Flumioxazin	Milk	306	0.01	0.005	GC-MS/MS	P
Flunixin	Milk	155	0.04	0.0052	GC-MS/MS	NS
Fluometuron	Milk	306	0.01	0.002	LC-MS/MS	P
Fluopicolide	Milk	306	0.02	0.002	GC-MS/MS	P
Fluopyram	Milk	306	0.3	0.002	LC-MS/MS	P
Fluquinconazole	Milk	306	0.01	0.002	GC-MS/MS	P
Fluridone	Milk	306	0.01	0.002	LC-MS/MS	P
Flusilazole	Milk	306	0.01	0.002	GC-MS/MS	P
Fluthiacet-methyl	Milk	306	0.01	0.002	LC-MS/MS	P
Flutolanil	Milk	306	0.01	0.002	GC-MS/MS	P
Flutriafol	Milk	306	0.01	0.002	GC-MS/MS	P
Fluvalinate	Milk	306	0.01	0.002	GC-MS/MS	P
Fonofos	Milk	306	0.01	0.002	GC-MS/MS	P
Forchlorfenuron	Milk	306	0.01	0.005	LC-MS/MS	P
Fosthiazate	Milk	306	0.01	0.002	GC-MS/MS	P
Fuberidazole	Milk	306	0.01	0.002	LC-MS/MS	P
Furalaxyl	Milk	306	0.01	0.002	GC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Furametypr	Milk	306	0.01	0.002	LC-MS/MS	P
Furathiocarb	Milk	306	0.01	0.002	LC-MS/MS	P
Gentamicin*	Milk	306	0.1	0.3	Delvotest T*	IS
Glyphosate	Milk	60	0.05	0.01	LC-MS/MS	O
Halosulfuron-methyl	Milk	306	0.01	0.002	LC-MS/MS	P
Haloxypop-etotyl	Milk	306	0.01	0.002	GC-MS/MS	P
Haloxypop-methyl	Milk	306	0.01	0.002	GC-MS/MS	P
Heptachlor	Milk	306	0.004	0.002	GC-MS/MS	P
Heptachlor endo-epoxide	Milk	306	0.01	0.005	GC-MS/MS	P
Heptachlor exo-epoxide	Milk	306	0.01	0.002	GC-MS/MS	P
Heptenophos	Milk	306	0.01	0.002	GC-MS/MS	P
Hexachlorobenzene (HCB)	Milk	306	0.01	0.002	GC-MS/MS	P
Hexaconazole	Milk	306	0.01	0.002	GC-MS/MS	P
Hexadecylpyridiniumammonium chloride (C16-PY)	Milk	60	0.1	0.01	LC-MS/MS	QAC
Hexadecyltrimethylammonium chloride (TM-C16)	Milk	60	0.1	0.01	LC-MS/MS	QAC
Hexaflumuron	Milk	306	0.01	0.01	LC-MS/MS	P
Hexazinone	Milk	306	0.01	0.002	GC-MS/MS	P
Hexythiazox	Milk	306	0.05	0.002	LC-MS/MS	P
Imazalil	Milk	306	0.01	0.002	LC-MS/MS	P
Imazamethabenz-methyl	Milk	306	0.01	0.002	LC-MS/MS	P
Imazosulfuron	Milk	306	0.01	0.002	LC-MS/MS	P
Imidacloprid	Milk	306	0.1	0.005	LC-MS/MS	P
Imidacloprid-5-hydroxy	Milk	306	0.01	0.005	LC-MS/MS	P
Imidacloprid-olefin	Milk	306	0.01	0.01	LC-MS/MS	P
Inabenfide	Milk	306	0.01	0.002	LC-MS/MS	P
Indanofan	Milk	306	0.01	0.005	LC-MS/MS	P
Indoxacarb	Milk	306	0.1	0.002	GC-MS/MS	P
Iodine	Milk	306	1.5	0.001	TMAH Digestion/ICP MS	EL
Iodofenphos	Milk	306	0.01	0.002	GC-MS/MS	P
Iodosulfuron-methyl	Milk	306	0.01	0.002	LC-MS/MS	P
Iprobenfos	Milk	306	0.01	0.002	GC-MS/MS	P
Iprodione	Milk	306	0.01	0.002	GC-MS/MS	P
Iprovalicarb	Milk	306	0.01	0.005	GC-MS/MS	P
Iron	Milk	306	5	0.5	Acid digest/ICPMS	EL
Isazofos	Milk	306	0.01	0.002	GC-MS/MS	P
Isofenphos	Milk	306	0.01	0.005	GC-MS/MS	P
Isofenphos-methyl	Milk	306	0.01	0.005	LC-MS/MS	P
Isoprocab	Milk	306	0.01	0.002	GC-MS/MS	P
Isoprothiolane	Milk	306	0.01	0.002	GC-MS/MS	P
Isoproturon	Milk	306	0.01	0.002	LC-MS/MS	P
Isopyrazam	Milk	306	0.01	0.002	LC-MS/MS	P
Isoxathion	Milk	306	0.01	0.002	LC-MS/MS	P
Ivermectin	Milk	155	0.01	0.003	LC-MS/MS	AN



Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Kanamycin	Milk	306	0.1	0.1	Microbial Inhibition	MIT
Karbutilate	Milk	306	0.01	0.002	LC-MS/MS	P
Ketoprofen	Milk	155	0.1	0.0047	GC-MS/MS	NS
Kresoxim-methyl	Milk	306	0.01	0.002	GC-MS/MS	P
Lactofen	Milk	306	0.01	0.002	GC-MS/MS	P
Lasalocid	Milk	60	0.015	0.015	LC-MS/MS	PC
Lead	Milk	306	0.02	0.001	Wet oxidation/ICP MS	EL
Lenacil	Milk	306	0.01	0.002	LC-MS/MS	P
Leptophos	Milk	306	0.01	0.002	GC-MS/MS	P
Levamisole	Milk	155	0.001	0.001	LC-MS/MS	AN
Lincomycin*	Milk	306	0.15	0.18	Delvotest T**	IS
Lindane (γ-HCH)*	Milk	306	0.002	0.002	GC-MS/MS	P
Linuron	Milk	306	0.01	0.005	LC-MS/MS	P
Maduramicin	Milk	60	0.1	0.067	LC-MS/MS	PC
Malathion	Milk	306	0.01	0.005	GC-MS/MS	P
Mandipropamid	Milk	306	0.01	0.002	LC-MS/MS	P
Mebendazole	Milk	155	0.002	0.002	LC-MS/MS	AN
Mebendazole 5-hydroxy	Milk	155	0.002	0.002	LC-MS/MS	AN
Mebendazole amine	Milk	155	0.002	0.002	LC-MS/MS	AN
Mefenacet	Milk	306	0.01	0.002	LC-MS/MS	P
Mefenpyr-diethyl	Milk	306	0.01	0.002	LC-MS/MS	P
Melamine	Milk	60	0.1	0.1	LC-MS/MS	O
Mepanipyrim	Milk	306	0.01	0.002	LC-MS/MS	P
Mepronil	Milk	306	0.01	0.002	GC-MS/MS	P
Mercury- (Total)	Milk	306	0.001	0.001	Acid digest/ICPMS	EL
Mesotrione	Milk	306	0.01	0.005	LC-MS/MS	P
Metalaxyl	Milk	306	0.01	0.002	GC-MS/MS	P
Metamitron	Milk	306	0.01	0.002	LC-MS/MS	P
Metconazole	Milk	306	0.01	0.002	LC-MS/MS	P
Methabenzthiazuron	Milk	306	0.01	0.002	LC-MS/MS	P
Methacrifos	Milk	306	0.01	0.002	GC-MS/MS	P
Methamidophos	Milk	306	0.01	0.002	LC-MS/MS	P
Methidathion*	Milk	306	0.002	0.002	GC-MS/MS	P
Methiocarb	Milk	306	0.01	0.002	GC-MS/MS	P
Methiocarb sulfone	Milk	306	0.01	0.002	LC-MS/MS	P
Methiocarb sulfoxide	Milk	306	0.01	0.002	LC-MS/MS	P
Methomyl	Milk	306	0.01	0.002	LC-MS/MS	P
Methoxychlor	Milk	306	0.01	0.002	GC-MS/MS	P
Methoxyfenozide	Milk	306	0.05	0.002	LC-MS/MS	P
Metobromuron	Milk	306	0.01	0.005	LC-MS/MS	P
Metolachlor	Milk	306	0.01	0.002	GC-MS/MS	P
Metominostrobin (E)	Milk	306	0.01	0.002	LC-MS/MS	P
Metominostrobin (Z)	Milk	306	0.01	0.002	LC-MS/MS	P
Metosulam	Milk	306	0.01	0.002	LC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Metrafenone	Milk	306	0.01	0.002	LC-MS/MS	P
Metribuzin	Milk	306	0.01	0.002	GC-MS/MS	P
Metsulfuron-methyl	Milk	306	0.01	0.005	LC-MS/MS	P
Mevinphos	Milk	306	0.01	0.002	GC-MS/MS	P
Mirex	Milk	306	0.01	0.002	GC-MS/MS	P
Molinate	Milk	306	0.01	0.002	GC-MS/MS	P
Monensin*	Milk	60	0.009	0.009	LC-MS/MS	PC
Monocrotophos	Milk	306	0.01	0.005	LC-MS/MS	P
Monolinuron	Milk	306	0.01	0.002	LC-MS/MS	P
Moxidectin	Milk	155	0.04	0.003	LC-MS/MS	AN
Myclobutanil	Milk	306	0.01	0.002	GC-MS/MS	P
Napropamide	Milk	306	0.01	0.002	GC-MS/MS	P
Narasin	Milk	60	0.1	0.017	LC-MS/MS	PC
N-benzyl dimethyldecyl ammonium chloride (BDM-C10)	Milk	60	0.1	0.01	LC-MS/MS	QAC
N-benzyl dimethylhexadecyl ammonium chloride (BDM-C16)	Milk	60	0.1	0.01	LC-MS/MS	QAC
N-benzyl dimethyloctadecyl ammonium chloride (BDM-C18)	Milk	60	0.1	0.01	LC-MS/MS	QAC
N-benzyl dimethyltetradecyl ammonium chloride (BDM-C14)	Milk	60	0.1	0.01	LC-MS/MS	QAC
N-didecyl dimethyl ammonium chloride (DM-DC10)	Milk	60	0.1	0.01	LC-MS/MS	QAC
N-didodecyl dimethyl ammonium chloride (DM-DC12)	Milk	60	0.1	0.01	LC-MS/MS	QAC
Neomycin	Milk	306	0.11	0.11	Delvotest T**	IS
Nitrofen	Milk	306	0.01	0.002	GC-MS/MS	P
Nitrothal-isopropyl	Milk	306	0.01	0.002	GC-MS/MS	P
Norflurazon	Milk	306	0.01	0.002	GC-MS/MS	P
Novaluron	Milk	306	0.1	0.005	LC-MS/MS	P
Octhilnone	Milk	306	0.01	0.002	LC-MS/MS	P
Oleandomycin	Milk	306	0.05	0.05	Microbial Inhibition	MIT
Omethoate	Milk	306	0.01	0.002	LC-MS/MS	P
Oryzalin	Milk	306	0.01	0.01	LC-MS/MS	P
Oxabetrinil	Milk	306	0.01	0.01	LC-MS/MS	P
Oxacillin	Milk	306	0.03	0.03	Delvotest T**	IS
Oxadiazon	Milk	306	0.01	0.002	GC-MS/MS	P
Oxadixyl	Milk	306	0.01	0.002	GC-MS/MS	P
Oxamyl	Milk	306	0.01	0.002	LC-MS/MS	P
Oxycarboxin	Milk	306	0.01	0.002	LC-MS/MS	P
Oxychlorane	Milk	306	0.01	0.005	GC-MS/MS	P
Oxyfluorfen	Milk	306	0.01	0.005	GC-MS/MS	P
Oxytetracycline	Milk	306	0.01	0.085	Delvotest T*	IS
Oxytetracycline	Milk	306	0.01	0.015	Microbial Inhibition	MIT
Paclobutrazol	Milk	306	0.01	0.002	GC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Parathion	Milk	306	0.01	0.002	GC-MS/MS	P
Parathion-methyl	Milk	306	0.01	0.002	GC-MS/MS	P
Penconazole	Milk	306	0.01	0.002	GC-MS/MS	P
Pencycuron	Milk	306	0.01	0.002	LC-MS/MS	P
Pendimethalin	Milk	306	0.01	0.005	GC-MS/MS	P
Penicillin	Milk	306	0.004	0.002	Delvotest T*	IS
Penicillin	Milk	306	0.004	0.0004	Microbial Inhibition	MIT
Pentachlorobenzene	Milk	306	0.01	0.002	GC-MS/MS	P
Penthiopyrad	Milk	306	0.01	0.002	LC-MS/MS	P
Permethrin	Milk	306	0.01	0.002	GC-MS/MS	P
Perthan	Milk	306	0.01	0.002	GC-MS/MS	P
Phenmedipham	Milk	306	0.01	0.002	LC-MS/MS	P
Phenthoate	Milk	306	0.01	0.002	GC-MS/MS	P
Phenylbutazone	Milk	155	0.007	0.007	GC-MS/MS	NS
Phorate	Milk	306	0.01	0.002	GC-MS/MS	P
Phorate sulfone	Milk	306	0.01	0.002	GC-MS/MS	P
Phorate sulfoxide	Milk	306	0.01	0.002	GC-MS/MS	P
Phosalone	Milk	306	0.01	0.002	GC-MS/MS	P
Phosmet	Milk	306	0.01	0.002	GC-MS/MS	P
Phosphamidon	Milk	306	0.01	0.002	LC-MS/MS	P
Phoxim	Milk	306	0.01	0.005	LC-MS/MS	P
Picolinafen	Milk	306	0.01	0.002	GC-MS/MS	P
Piperonyl butoxide	Milk	306	0.01	0.002	GC-MS/MS	P
Piperophos	Milk	306	0.01	0.002	GC-MS/MS	P
Pirimicarb	Milk	306	0.01	0.002	GC-MS/MS	P
Pirimiphos-methyl	Milk	306	0.01	0.002	GC-MS/MS	P
Pretilachlor	Milk	306	0.01	0.002	GC-MS/MS	P
Prochloraz	Milk	306	0.01	0.002	GC-MS/MS	P
Procymidone	Milk	306	0.01	0.002	GC-MS/MS	P
Profenofos	Milk	306	0.01	0.002	LC-MS/MS	P
Promecarb	Milk	306	0.01	0.002	GC-MS/MS	P
Prometryn	Milk	306	0.01	0.002	GC-MS/MS	P
Propachlor	Milk	306	0.01	0.002	GC-MS/MS	P
Propamocarb	Milk	306	0.01	0.01	LC-MS/MS	P
Propanil	Milk	306	0.01	0.01	LC-MS/MS	P
Propaphos	Milk	306	0.01	0.002	LC-MS/MS	P
Propaquizafop	Milk	306	0.01	0.002	LC-MS/MS	P
Propargite	Milk	306	0.01	0.002	GC-MS/MS	P
Propazine	Milk	306	0.01	0.002	GC-MS/MS	P
Propetamphos	Milk	306	0.01	0.002	GC-MS/MS	P
Propham	Milk	306	0.01	0.002	GC-MS/MS	P
Propiconazole	Milk	306	0.01	0.002	GC-MS/MS	P
Propoxur	Milk	306	0.01	0.002	GC-MS/MS	P
Propyzamide	Milk	306	0.01	0.002	GC-MS/MS	P
Proquinazid	Milk	306	0.01	0.002	LC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Prosulfocarb	Milk	306	0.01	0.002	LC-MS/MS	P
Prothiofos	Milk	306	0.01	0.002	GC-MS/MS	P
Pymetrozine	Milk	306	0.01	0.002	LC-MS/MS	P
Pyraclufos	Milk	306	0.01	0.002	GC-MS/MS	P
Pyraclostrobin	Milk	306	0.01	0.002	GC-MS/MS	P
Pyraflufen-ethyl	Milk	306	0.01	0.002	GC-MS/MS	P
Pyrasulfotole	Milk	306	0.01	0.005	LC-MS/MS	P
Pyrazophos	Milk	306	0.01	0.002	GC-MS/MS	P
Pyrethrins	Milk	306	0.01	0.005	LC-MS/MS	P
Pyributicarb	Milk	306	0.01	0.002	GC-MS/MS	P
Pyridaben	Milk	306	0.01	0.002	GC-MS/MS	P
Pyridaphenthion	Milk	306	0.01	0.002	GC-MS/MS	P
Pyrifenox	Milk	306	0.01	0.002	LC-MS/MS	P
Pyrifthalid	Milk	306	0.01	0.002	LC-MS/MS	P
Pyrimethanil	Milk	306	0.01	0.002	GC-MS/MS	P
Pyrimidifen	Milk	306	0.01	0.002	GC-MS/MS	P
Pyriminobac-methyl (E)	Milk	306	0.01	0.002	GC-MS/MS	P
Pyriminobac-methyl (Z)	Milk	306	0.01	0.002	GC-MS/MS	P
Pyriproxyfen	Milk	306	0.01	0.002	GC-MS/MS	P
Pyroquilon	Milk	306	0.01	0.002	LC-MS/MS	P
Pyroxulam	Milk	306	0.01	0.002	LC-MS/MS	P
Quinalphos	Milk	306	0.01	0.002	GC-MS/MS	P
Quinoclamine	Milk	306	0.01	0.005	LC-MS/MS	P
Quinoxifen	Milk	306	0.01	0.002	GC-MS/MS	P
Quintozene	Milk	306	0.01	0.002	GC-MS/MS	P
Quizalofop-ethyl	Milk	306	0.01	0.002	GC-MS/MS	P
Rifamixin	Milk	306	0.03	0.03	Delvotest T**	IS
Rimsulfuron	Milk	306	0.01	0.002	LC-MS/MS	P
Saflufenacil	Milk	306	0.01	0.002	LC-MS/MS	P
Salinomycin	Milk	60	0.1	0.009	LC-MS/MS	PC
Sebuthylazine	Milk	306	0.01	0.002	GC-MS/MS	P
Selenium	Milk	306	2	0.002	Acid digest/ICPMS	EL
SEM (Nitrofurazone)	Milk	306	0.0005	0.0005	LC-MS/MS	N
Semduramycin	Milk	60	0.1	0.06	LC-MS/MS	PC
Sethoxydim	Milk	306	0.01	0.002	LC-MS/MS	P
Simazine	Milk	306	0.01	0.002	GC-MS/MS	P
Simeconazole	Milk	306	0.01	0.002	GC-MS/MS	P
Simetryn	Milk	306	0.01	0.002	GC-MS/MS	P
Sodium monofluoroacetate	Milk	60	0.001	0.001	LC-MS/MS	O
Sodium thiocyanate	Milk	60	20	0.5	HPLC-UV	O
Spinetoram	Milk	306	0.01	0.002	LC-MS/MS	P
Spinosad	Milk	306	0.01	0.002	LC-MS/MS	P
Spiramycin	Milk	306	0.04	0.04	Microbial Inhibition	MIT
Spiromesifen enol	Milk	306	0.01	0.002	LC-MS/MS	P
Spiromesifen	Milk	306	0.01	0.005	LC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Spirotetramat	Milk	306	0.002	0.002	LC-MS/MS	P
Spirotetramat enol	Milk	306	0.005	0.005	LC-MS/MS	P
Spirotetramat enol-glucoside	Milk	306	0.005	0.005	LC-MS/MS	P
Spirotetramat-keto-hydroxy	Milk	306	0.002	0.002	LC-MS/MS	P
Spirotetramat-mono-hydroxy	Milk	306	0.002	0.002	LC-MS/MS	P
Spiroxamine	Milk	306	0.01	0.002	LC-MS/MS	P
Streptomycin	Milk	306	0.02	0.02	Microbial Inhibition	MIT
Sulfadiazine	Milk	306	0.1	0.1	Delvotest T*	IS
Sulfadimethoxine	Milk	306	0.04	0.04	Delvotest T**	IS
Sulfamethazine	Milk	306	0.15	0.15	Delvotest T**	IS
Sulfathiazole	Milk	306	0.03	0.03	Delvotest T**	IS
Sulfentrazone	Milk	306	0.01	0.005	LC-MS/MS	P
Sulprofos	Milk	306	0.01	0.002	LC-MS/MS	P
Tebuconazole	Milk	306	0.01	0.002	GC-MS/MS	P
Tebufenozide	Milk	306	0.01	0.01	LC-MS/MS	P
Tebufenpyrad	Milk	306	0.01	0.002	GC-MS/MS	P
Tebuthiuron	Milk	306	0.01	0.002	LC-MS/MS	P
Tecnazene	Milk	306	0.01	0.002	GC-MS/MS	P
Tefluthrin	Milk	306	0.01	0.002	GC-MS/MS	P
Temephos	Milk	306	0.01	0.005	LC-MS/MS	P
Tepraloxymdim	Milk	306	0.01	0.002	LC-MS/MS	P
Terbacil	Milk	306	0.01	0.002	GC-MS/MS	P
Terbufos	Milk	306	0.01	0.002	GC-MS/MS	P
Terbumeton	Milk	306	0.01	0.002	LC-MS/MS	P
Terbuthylazine	Milk	306	0.01	0.002	GC-MS/MS	P
Terbutryn	Milk	306	0.01	0.002	GC-MS/MS	P
Tetrachlorvinphos	Milk	306	0.01	0.002	GC-MS/MS	P
Tetraconazole	Milk	306	0.01	0.002	GC-MS/MS	P
Tetracycline	Milk	306	0.05	0.05	SNAP (tetracycline)	IS
Tetracycline	Milk	306	0.01	0.075	Delvotest T**	IS
Tetracycline	Milk	306	0.01	0.015	Microbial Inhibition	MIT
Tetradifon	Milk	306	0.01	0.002	GC-MS/MS	P
Tetrahydrophthalimide-1,2,3,6	Milk	306	0.01	0.002	GC-MS/MS	P
Thenylchlor	Milk	306	0.01	0.002	GC-MS/MS	P
Thiabendazole	Milk	306	0.01	0.002	LC-MS/MS	P
Thiacloprid	Milk	306	0.05	0.002	LC-MS/MS	P
Thiamethoxam	Milk	306	0.05	0.005	LC-MS/MS	P
Thiazopyr	Milk	306	0.01	0.002	LC-MS/MS	P
Thidiazuron	Milk	306	0.01	0.002	LC-MS/MS	P
Thiobencarb	Milk	306	0.01	0.002	GC-MS/MS	P
Thiometon	Milk	306	0.01	0.002	GC-MS/MS	P
Tiadinil	Milk	306	0.01	0.002	LC-MS/MS	P
Tilmicosin*	Milk	306	0.05	0.06	Delvotest T**	IS

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Tin	Milk	306	0.1	0.005	Acid digest/ICPMS	EL
Tolclofos-methyl	Milk	306	0.01	0.002	GC-MS/MS	P
Tolyfluanid	Milk	306	0.01	0.01	LC-MS/MS	P
Tralkoxydim	Milk	306	0.01	0.002	LC-MS/MS	P
Transfluthrin	Milk	306	0.01	0.005	GC-MS/MS	P
Triadimefon	Milk	306	0.01	0.005	GC-MS/MS	P
Triadimenol	Milk	306	0.01	0.005	GC-MS/MS	P
Tri-allate	Milk	306	0.01	0.002	GC-MS/MS	P
Triasulfuron	Milk	306	0.01	0.002	LC-MS/MS	P
Triazophos	Milk	306	0.01	0.002	GC-MS/MS	P
Tribenuron-methyl	Milk	306	0.01	0.005	LC-MS/MS	P
Tribufos	Milk	306	0.01	0.002	GC-MS/MS	P
Trichlorfon	Milk	306	0.01	0.005	LC-MS/MS	P
Triclabendazole	Milk	155	0.01	0.005	LC-MS/MS	AN
Triclabendazole hydroxy	Milk	155	0.01	0.002	LC-MS/MS	AN
Triclabendazole sulfone	Milk	155	0.01	0.005	LC-MS/MS	AN
Triclabendazole sulfoxide	Milk	155	0.01	0.01	LC-MS/MS	AN
Tricyclazole	Milk	306	0.01	0.002	LC-MS/MS	P
Trifloxystrobin	Milk	306	0.01	0.002	GC-MS/MS	P
Trifloxysulfuron-sodium	Milk	306	0.01	0.002	LC-MS/MS	P
Triflumizole	Milk	306	0.01	0.002	LC-MS/MS	P
Triflumuron	Milk	306	0.01	0.002	LC-MS/MS	P
Trifluralin	Milk	306	0.01	0.002	GC-MS/MS	P
Triflusulfuron-methyl	Milk	306	0.01	0.002	LC-MS/MS	P
Triforine	Milk	306	0.01	0.005	LC-MS/MS	P
Trimethoprim*	Milk	306	0.05	0.13	Delvotest T**	IS
Triticonazole	Milk	306	0.01	0.002	GC-MS/MS	P
Tylosin	Milk	306	0.05	0.05	Delvotest T*	IS
Tylosin	Milk	306	0.05	0.033	Microbial Inhibition	MIT
Uniconazole-P	Milk	306	0.01	0.002	GC-MS/MS	P
Vamidothion	Milk	306	0.01	0.002	LC-MS/MS	P
Vinclozolin	Milk	306	0.01	0.002	GC-MS/MS	P
XMC	Milk	306	0.01	0.002	GC-MS/MS	P
Zinc	Milk	306	10	0.1	Acid digest/ICPMS	EL
Zoxamide	Milk	306	0.01	0.002	LC-MS/MS	P

Delvotest T\* Verified in milk by the testing laboratory

Delvotest T\*\* Manufacturers LOD

[compound]\* Compounds are included even though the method may not detect down to action limits as it will still enable the conformance of milk at delivery to the processing premises to be assessed

\*\*\* Action limit applies corrected to milk with 4% milkfat

\*\* refer Appendix 1 for code

**Table 3: NCCP Colostrum Surveillance - List of Compounds 2017/18**

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
2-Phenylphenol	Colostrum	10	0.01	0.002	GC-MS/MS	P
Abamectin	Colostrum	10	0.003	0.003	LC-MS/MS	AN
Abamectin	Colostrum	10	0.002	0.002	LC-MS/MS	P
Acephate	Colostrum	10	0.01	0.002	LC-MS/MS	P
Acetamiprid	Colostrum	10	0.1	0.002	LC-MS/MS	P
Acetamiprid-N-desmethyl	Colostrum	10	0.01	0.002	LC-MS/MS	P
Acetochlor	Colostrum	10	0.01	0.002	GC-MS/MS	P
Acibenzolar-S-methyl	Colostrum	10	0.01	0.005	LC-MS/MS	P
Acrinathrin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Aflatoxin-M1	Colostrum	10	0.05ug/kg	0.005ug/kg	LC-MS/MS	AF
AHD (Nitrofurantoin)	Colostrum	10	0.0003	0.0003	LC-MS/MS	N
Alachlor	Colostrum	10	0.01	0.002	GC-MS/MS	P
Alanycarb	Colostrum	10	0.01	0.002	LC-MS/MS	P
Albendazole	Colostrum	10	0.1	0.001	LC-MS/MS	AN
Albendazole sulfone	Colostrum	10	0.1	0.001	LC-MS/MS	AN
Albendazole sulfone 2-amino	Colostrum	10	0.1	0.004	LC-MS/MS	AN
Albendazole sulfoxide	Colostrum	10	0.1	0.001	LC-MS/MS	AN
Aldicarb	Colostrum	10	0.01	0.01	LC-MS/MS	P
Aldicarb sulfone	Colostrum	10	0.01	0.002	LC-MS/MS	P
Aldicarb sulfoxide	Colostrum	10	0.01	0.002	LC-MS/MS	P
Aldrin	Colostrum	10	0.006	0.002	GC-MS/MS	P
Allidochlor	Colostrum	10	0.01	0.005	GC-MS/MS	P
Aluminium	Colostrum	10	1	0.1	Acid digest/ICPMS	EL
Ametoctradin	Colostrum	10	0.01	0.002	LC-MS/MS	P
Ametryn	Colostrum	10	0.01	0.002	GC-MS/MS	P
Amoxicillin	Colostrum	10	0.004	0.004	Delvotest T**	IS
Amoxicillin	Colostrum	10	0.004	0.0015	Microbial Inhibition	MIT
AMOZ (Furaltadone)	Colostrum	10	0.0001	0.0001	LC-MS/MS	N
Ampicillin	Colostrum	10	0.004	0.002	Delvotest T*	IS
Ampicillin	Colostrum	10	0.004	0.0015	Microbial Inhibition	MIT
Anilofos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Anthraquinone	Colostrum	10	0.01	0.002	GC-MS/MS	P
AOZ (Furazolidone)	Colostrum	10	0.0001	0.0001	LC-MS/MS	N
Arsenic	Colostrum	10	0.01	0.001	Wet oxidation/ICP MS	EL
Atrazine	Colostrum	10	0.01	0.002	GC-MS/MS	P
Azaconazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Azamethiphos	Colostrum	10	0.01	0.002	LC-MS/MS	P
Azinphos-methyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Azoxystrobin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Benalaxyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Bendiocarb	Colostrum	10	0.01	0.002	GC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Benfluralin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Benodanil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Benoxacor	Colostrum	10	0.01	0.002	GC-MS/MS	P
Bensulfuron-methyl	Colostrum	10	0.01	0.002	LC-MS/MS	P
Bensulide	Colostrum	10	0.01	0.002	LC-MS/MS	P
Benzyl dimethyldodecyl ammonium chloride (BDM-C12)	Colostrum	10	0.1	0.01	LC-MS/MS	QAC
BHC (alpha)	Colostrum	10	0.01	0.002	GC-MS/MS	P
BHC (beta)	Colostrum	10	0.01	0.002	GC-MS/MS	P
BHC (delta)	Colostrum	10	0.01	0.002	GC-MS/MS	P
Bifenoxy	Colostrum	10	0.01	0.002	GC-MS/MS	P
Bifenthrin	Colostrum	10	0.1	0.002	GC-MS/MS	P
Bioresmethrin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Bismuth	Colostrum	10	0.5	0.001	Acid Digest/ICPMS	EL
Bitertanol	Colostrum	10	0.05	0.002	GC-MS/MS	P
Boron	Colostrum	10	1	0.05	Acid Digest/ICPMS	EL
Boscalid	Colostrum	10	0.02	0.002	LC-MS/MS	P
Bromacil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Bromobutide	Colostrum	10	0.01	0.002	GC-MS/MS	P
Bromophos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Bromophos-ethyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Bromopropylate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Bupirimate	Colostrum	10	0.05	0.002	GC-MS/MS	P
Buprofezin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Butachlor	Colostrum	10	0.01	0.002	GC-MS/MS	P
Butafenacil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Butamifos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Cadmium	Colostrum	10	0.1	0.0002	Acid digest/ICPMS	EL
Cadusafos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Cafenstrole	Colostrum	10	0.01	0.002	LC-MS/MS	P
Carbaryl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Carbendazim	Colostrum	10	0.01	0.002	LC-MS/MS	P
Carbetamide	Colostrum	10	0.01	0.002	LC-MS/MS	P
Carbofuran	Colostrum	10	0.001	0.002	GC-MS/MS	P
Carboxin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Carfentrazone-ethyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Carpropamid	Colostrum	10	0.01	0.002	LC-MS/MS	P
Cefoperazone	Colostrum	10	0.05	0.04	Delvotest T**	IS
Cefquinome*	Colostrum	10	0.02	0.04	Delvotest T**	IS
Ceftiofur	Colostrum	10	0.1	0.02	Delvotest T**	IS
Ceftiofur	Colostrum	10	0.1	0.008	Microbial Inhibition	MIT
Cephalexin	Colostrum	10	0.1	0.02	Delvotest T**	IS
Cephalexin	Colostrum	10	0.1	0.012	Microbial Inhibition	MIT
Cephalonium	Colostrum	10	0.02	0.02	Delvotest T*	IS



Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Cephalonium	Colostrum	10	0.02	0.008	Microbial Inhibition	MIT
Cephapirin	Colostrum	10	0.01	0.005	Delvotest T**	IS
Cephuroxime	Colostrum	10	0.1	0.016	Microbial Inhibition	MIT
Chlorantraniliprole	Colostrum	10	0.05	0.002	LC-MS/MS	P
Chlordane-cis	Colostrum	10	0.002	0.002	GC-MS/MS	P
Chlordane-trans	Colostrum	10	0.002	0.002	GC-MS/MS	P
Chlorfenapyr	Colostrum	10	0.01	0.005	GC-MS/MS	P
Chlorfenvinphos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Chloridazon	Colostrum	10	0.1	0.002	LC-MS/MS	P
Chlorimuron-ethyl	Colostrum	10	0.01	0.002	LC-MS/MS	P
Chlorobenzilate	Colostrum	10	0.1	0.002	GC-MS/MS	P
Chlorotoluron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Chloroxuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Chlorpropham	Colostrum	10	0.01	0.002	GC-MS/MS	P
Chlorpyrifos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Chlorpyrifos-methyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Chlorsulfuron	Colostrum	10	0.01	0.005	LC-MS/MS	P
Chlortetracycline	Colostrum	10	0.01	0.004	Microbial Inhibition	MIT
Chlorthal-dimethyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Chlorthiophos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Chlozolate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Chromafenozide	Colostrum	10	0.01	0.002	LC-MS/MS	P
Chromium	Colostrum	10	0.3	0.003	Acid digest/ICPMS	EL
Cinidon-ethyl	Colostrum	10	0.01	0.005	LC-MS/MS	P
Clethodim	Colostrum	10	0.01	0.002	LC-MS/MS	P
Clodinafop-propargyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Clofentezine	Colostrum	10	0.01	0.005	LC-MS/MS	P
Clomazone	Colostrum	10	0.01	0.002	GC-MS/MS	P
Cloquintocet-mexyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Clorsulon	Colostrum	10	0.016	0.016	LC-MS/MS	AN
Clothianidin	Colostrum	10	0.01	0.005	LC-MS/MS	P
Cloxacin	Colostrum	10	0.015	0.015	Delvotest T*	IS
Cobalt	Colostrum	10	0.1	0.002	Acid digest/ICPMS	EL
Copper	Colostrum	10	0.15	0.005	Acid digest/ICPMS	EL
Coumaphos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Coumaphos oxon	Colostrum	10	0.01	0.002	GC-MS/MS	P
Crufomate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Cyanazine	Colostrum	10	0.01	0.002	GC-MS/MS	P
Cyanophos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Cyantraniliprole	Colostrum	10	0.01	0.002	LC-MS/MS	P
Cyanuric acid	Colostrum	10	0.1	0.1	LC-MS/MS	O
Cyazofamid	Colostrum	10	0.01	0.002	LC-MS/MS	P
Cycloate	Colostrum	10	0.01	0.005	LC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Cyclosulfamuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Cyflufenamid	Colostrum	10	0.01	0.005	GC-MS/MS	P
Cyfluthrin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Cyhalofop-butyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Cyhalothrin	Colostrum	10	0.05	0.002	GC-MS/MS	P
Cymoxanil	Colostrum	10	0.01	0.005	LC-MS/MS	P
Cypermethrin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Cyproconazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Cyprodinil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Cyromazine	Colostrum	10	0.01	0.002	LC-MS/MS	P
Daimuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
DDD (o,p') ***	Colostrum	10	0.02	0.002	GC-MS/MS	P
DDD (p,p') ***	Colostrum	10	0.02	0.002	GC-MS/MS	P
DDE (o,p') ***	Colostrum	10	0.02	0.002	GC-MS/MS	P
DDE (p,p') ***	Colostrum	10	0.02	0.002	GC-MS/MS	P
DDT (o,p') ***	Colostrum	10	0.02	0.002	GC-MS/MS	P
DDT (p,p') ***	Colostrum	10	0.02	0.002	GC-MS/MS	P
Deltamethrin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Demeton-S-methyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Demeton-S-methyl sulfoxide	Colostrum	10	0.01	0.002	LC-MS/MS	P
Desmedipham	Colostrum	10	0.01	0.005	LC-MS/MS	P
Diazinon	Colostrum	10	0.02	0.002	GC-MS/MS	P
Dichlobenil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Dichlofenthion	Colostrum	10	0.01	0.002	GC-MS/MS	P
Dichlofluanid	Colostrum	10	0.01	0.01	LC-MS/MS	P
Dichlorobenzophenone (Dicofol-BP)	Colostrum	10	0.01	0.002	GC-MS/MS	P
Dichlorvos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Diclobutrazol	Colostrum	10	0.01	0.002	GC-MS/MS	P
Diclocymet	Colostrum	10	0.01	0.002	LC-MS/MS	P
Diclofop-methyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Dicloran	Colostrum	10	0.01	0.002	GC-MS/MS	P
Diclosulam	Colostrum	10	0.01	0.002	LC-MS/MS	P
Dicrotophos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Dicyclanil	Colostrum	10	0.01	0.005	LC-MS/MS	P
Dieldrin	Colostrum	10	0.006	0.002	GC-MS/MS	P
Diethofencarb	Colostrum	10	0.01	0.002	GC-MS/MS	P
Difenoconazole	Colostrum	10	0.005	0.002	GC-MS/MS	P
Diflubenzuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Diflufenican	Colostrum	10	0.01	0.002	GC-MS/MS	P
Dihydrostreptomycin	Colostrum	10	0.02	0.02	Microbial Inhibition	MIT
Dimepiperate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Dimethenamid	Colostrum	10	0.01	0.002	GC-MS/MS	P
Dimethoate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Dimethomorph	Colostrum	10	0.01	0.002	LC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Dimethylditetradecylammonium chloride (DM-DC14)	Colostrum	10	0.1	0.01	LC-MS/MS	QAC
Dimethylvinphos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Dioxabenzofos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Dioxathion	Colostrum	10	0.01	0.005	LC-MS/MS	P
Diphenamid	Colostrum	10	0.01	0.002	GC-MS/MS	P
Diphenylamine	Colostrum	10	0.01	0.002	GC-MS/MS	P
Disulfoton	Colostrum	10	0.01	0.002	GC-MS/MS	P
Dithiopyr	Colostrum	10	0.01	0.002	GC-MS/MS	P
Diuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Doramectin	Colostrum	10	0.003	0.003	LC-MS/MS	AN
Doxycycline	Colostrum	10	0.04	0.04	Delvotest T**	IS
Edifenphos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Emamectin benzoate	Colostrum	10	0.002	0.002	LC-MS/MS	P
Endosulfan (alpha)	Colostrum	10	0.01	0.002	GC-MS/MS	P
Endosulfan (beta)	Colostrum	10	0.01	0.002	GC-MS/MS	P
Endosulfan sulfate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Endrin*	Colostrum	10	0.002	0.002	GC-MS/MS	P
Endrin ketone	Colostrum	10	0.01	0.005	GC-MS/MS	P
EPN	Colostrum	10	0.01	0.002	GC-MS/MS	P
Epoxiconazole	Colostrum	10	0.002	0.002	GC-MS/MS	P
Eprinomectin	Colostrum	10	0.02	0.003	LC-MS/MS	AN
EPTC	Colostrum	10	0.01	0.002	GC-MS/MS	P
Erythromycin	Colostrum	10	0.01	0.01	Microbial Inhibition	MIT
Esprocarb	Colostrum	10	0.01	0.002	GC-MS/MS	P
Ethalfuralin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Ethametsulfuron-methyl	Colostrum	10	0.01	0.002	LC-MS/MS	P
Ethiofencarb	Colostrum	10	0.01	0.002	GC-MS/MS	P
Ethion	Colostrum	10	0.01	0.002	GC-MS/MS	P
Ethiprole	Colostrum	10	0.01	0.002	LC-MS/MS	P
Ethofumesate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Ethoprophos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Ethoxyquin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Ethoxysulfuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Ethychlozate	Colostrum	10	0.01	0.002	LC-MS/MS	P
Etobenzanid	Colostrum	10	0.01	0.002	LC-MS/MS	P
Etoxazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Etridiazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Etrimfos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Famoxadone	Colostrum	10	0.03	0.01	LC-MS/MS	P
Famphur	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenamidone	Colostrum	10	0.01	0.002	LC-MS/MS	P
Fenamiphos	Colostrum	10	0.002	0.002	LC-MS/MS	P
Fenarimol	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenbendazole	Colostrum	10	0.01	0.001	LC-MS/MS	AN
Fenbendazole sulfone	Colostrum	10	0.01	0.001	LC-MS/MS	AN

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Fenbendazole sulfoxide	Colostrum	10	0.01	0.001	LC-MS/MS	AN
Fenbuconazole	Colostrum	10	0.01	0.002	LC-MS/MS	P
Fenchlorphos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenhexamid	Colostrum	10	0.01	0.002	LC-MS/MS	P
Fenitrothion	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenobucarb	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenothiocarb	Colostrum	10	0.01	0.002	LC-MS/MS	P
Fenoxanil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenoxaprop	Colostrum	10	0.01	0.005	LC-MS/MS	P
Fenoxaprop-ethyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenoxycarb	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenpiclonil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenpropadin	Colostrum	10	0.005	0.002	LC-MS/MS	P
Fenpropathrin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenpropimorph	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenpyroximate	Colostrum	10	0.01	0.002	LC-MS/MS	P
Fensulfthion	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenthion	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenthion oxon	Colostrum	10	0.01	0.002	LC-MS/MS	P
Fenthion oxon sulfone	Colostrum	10	0.01	0.005	LC-MS/MS	P
Fenthion oxon sulfoxide	Colostrum	10	0.01	0.002	LC-MS/MS	P
Fenthion sulfone	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenthion sulfoxide	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fenthion-ethyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fentrazamide	Colostrum	10	0.01	0.01	LC-MS/MS	P
Fenvalerate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Ferimzone	Colostrum	10	0.01	0.002	LC-MS/MS	P
Fipronil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fipronil sulfide	Colostrum	10	0.01	0.002	LC-MS/MS	P
Fipronil sulfone	Colostrum	10	0.01	0.002	LC-MS/MS	P
Flamprop	Colostrum	10	0.01	0.002	LC-MS/MS	P
Flamprop-methyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Flazasulfuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Fluacrypyrim	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fluazifop-P-butyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Flubendazole	Colostrum	10	0.1	0.001	LC-MS/MS	AN
Flubendazole	Colostrum	10	0.01	0.002	LC-MS/MS	P
Flubendazole amine	Colostrum	10	0.1	0.002	LC-MS/MS	AN
Flubendiamide	Colostrum	10	0.1	0.02	LC-MS/MS	P
Flucythrinate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fludioxonil	Colostrum	10	0.01	0.005	LC-MS/MS	P
Flufenacet	Colostrum	10	0.01	0.002	LC-MS/MS	P
Flumethrin	Colostrum	10	0.03	0.005	GC-ECD	P
Flumiclorac-pentyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Flumioxazin	Colostrum	10	0.01	0.005	GC-MS/MS	P
Flunixin	Colostrum	10	0.04	0.0052	GC-MS/MS	NS

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Fluometuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Fluopicolide	Colostrum	10	0.02	0.002	GC-MS/MS	P
Fluopyram	Colostrum	10	0.3	0.002	LC-MS/MS	P
Fluquinconazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fluridone	Colostrum	10	0.01	0.002	LC-MS/MS	P
Flusilazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fluthiacet-methyl	Colostrum	10	0.01	0.002	LC-MS/MS	P
Flutolanil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Flutriafol	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fluvalinate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fonofos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Forchlorfenuron	Colostrum	10	0.01	0.005	LC-MS/MS	P
Fosthiazate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Fuberidazole	Colostrum	10	0.01	0.002	LC-MS/MS	P
Furalaxyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Furametpyr	Colostrum	10	0.01	0.002	LC-MS/MS	P
Furathiocarb	Colostrum	10	0.01	0.002	LC-MS/MS	P
Gentamicin*	Colostrum	10	0.1	0.3	Delvotest T*	IS
Halosulfuron-methyl	Colostrum	10	0.01	0.002	LC-MS/MS	P
Haloxypop-etotyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Haloxypop-methyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Heptachlor	Colostrum	10	0.004	0.002	GC-MS/MS	P
Heptachlor endo-epoxide	Colostrum	10	0.01	0.005	GC-MS/MS	P
Heptachlor exo-epoxide	Colostrum	10	0.01	0.002	GC-MS/MS	P
Heptenophos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Hexachlorobenzene (HCB)	Colostrum	10	0.01	0.002	GC-MS/MS	P
Hexaconazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Hexadecylpyridiniumammonium chloride (C16-PY)	Colostrum	10	0.1	0.01	LC-MS/MS	QAC
Hexadecyltrimethylammonium chloride (TM-C16)	Colostrum	10	0.1	0.01	LC-MS/MS	QAC
Hexaflumuron	Colostrum	10	0.01	0.01	LC-MS/MS	P
Hexazinone	Colostrum	10	0.01	0.002	GC-MS/MS	P
Hexythiazox	Colostrum	10	0.05	0.002	LC-MS/MS	P
IgG1	Colostrum	10	min. 2.0 g/L	2.0 g/L	NIA	MC
Imazalil	Colostrum	10	0.01	0.002	LC-MS/MS	P
Imazamethabenz-methyl	Colostrum	10	0.01	0.002	LC-MS/MS	P
Imazosulfuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Imidacloprid	Colostrum	10	0.1	0.005	LC-MS/MS	P
Imidacloprid-5-hydroxy	Colostrum	10	0.01	0.005	LC-MS/MS	P
Imidacloprid-olefin	Colostrum	10	0.01	0.01	LC-MS/MS	P
Inabenfide	Colostrum	10	0.01	0.002	LC-MS/MS	P
Indanofan	Colostrum	10	0.01	0.005	LC-MS/MS	P
Indoxacarb	Colostrum	10	0.1	0.002	GC-MS/MS	P
Iodine	Colostrum	10	1.5	0.001	TMAH Digestion/ICP MS	EL
Iodofenphos	Colostrum	10	0.01	0.002	GC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Iodosulfuron-methyl	Colostrum	10	0.01	0.002	LC-MS/MS	P
Iprobenfos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Iprodione	Colostrum	10	0.01	0.002	GC-MS/MS	P
Iprovalicarb	Colostrum	10	0.01	0.005	GC-MS/MS	P
Iron	Colostrum	10	5	0.5	Acid digest/ICPMS	EL
Isazofos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Isofenphos	Colostrum	10	0.01	0.005	GC-MS/MS	P
Isofenphos-methyl	Colostrum	10	0.01	0.005	LC-MS/MS	P
Isoprocarb	Colostrum	10	0.01	0.002	GC-MS/MS	P
Isoprothiolane	Colostrum	10	0.01	0.002	GC-MS/MS	P
Isoproturon	Colostrum	10	0.01	0.002	LC-MS/MS	P
Isopyrazam	Colostrum	10	0.01	0.002	LC-MS/MS	P
Isoxathion	Colostrum	10	0.01	0.002	LC-MS/MS	P
Ivermectin	Colostrum	10	0.01	0.003	LC-MS/MS	AN
Kanamycin	Colostrum	10	0.1	0.1	Microbial Inhibition	MIT
Karbutilate	Colostrum	10	0.01	0.002	LC-MS/MS	P
Ketoprofen	Colostrum	10	0.1	0.0047	GC-MS/MS	NS
Kresoxim-methyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Lactofen	Colostrum	10	0.01	0.002	GC-MS/MS	P
Lasalocid	Colostrum	10	0.015	0.015	LC-MS/MS	PC
Lead	Colostrum	10	0.02	0.001	Wet oxidation/ICP MS	EL
Lenacil	Colostrum	10	0.01	0.002	LC-MS/MS	P
Leptophos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Levamisole	Colostrum	10	0.001	0.001	LC-MS/MS	AN
Lincomycin*	Colostrum	10	0.15	0.18	Delvotest T**	IS
Lindane (γ-HCH)*	Colostrum	10	0.002	0.002	GC-MS/MS	P
Linuron	Colostrum	10	0.01	0.005	LC-MS/MS	P
Maduramicin	Colostrum	10	0.1	0.067	LC-MS/MS	PC
Malathion	Colostrum	10	0.01	0.005	GC-MS/MS	P
Mandipropamid	Colostrum	10	0.01	0.002	LC-MS/MS	P
Mebendazole	Colostrum	10	0.002	0.002	LC-MS/MS	AN
Mebendazole 5-hydroxy	Colostrum	10	0.002	0.002	LC-MS/MS	AN
Mebendazole amine	Colostrum	10	0.002	0.002	LC-MS/MS	AN
Mefenacet	Colostrum	10	0.01	0.002	LC-MS/MS	P
Mefenpyr-diethyl	Colostrum	10	0.01	0.002	LC-MS/MS	P
Melamine	Colostrum	10	0.1	0.1	LC-MS/MS	O
Mepanipirim	Colostrum	10	0.01	0.002	LC-MS/MS	P
Mepronil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Mercury (total)	Colostrum	10	0.001	0.001	Acid digest/ICPMS	EL
Mesotrione	Colostrum	10	0.01	0.005	LC-MS/MS	P
Metalaxyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Metamitron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Metconazole	Colostrum	10	0.01	0.002	LC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Methabenzthiazuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Methacrifos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Methamidophos	Colostrum	10	0.01	0.002	LC-MS/MS	P
Methidathion*	Colostrum	10	0.002	0.002	GC-MS/MS	P
Methiocarb	Colostrum	10	0.01	0.002	GC-MS/MS	P
Methiocarb sulfone	Colostrum	10	0.01	0.002	LC-MS/MS	P
Methiocarb sulfoxide	Colostrum	10	0.01	0.002	LC-MS/MS	P
Methomyl	Colostrum	10	0.01	0.002	LC-MS/MS	P
Methoxychlor	Colostrum	10	0.01	0.002	GC-MS/MS	P
Methoxyfenozide	Colostrum	10	0.05	0.002	LC-MS/MS	P
Metobromuron	Colostrum	10	0.01	0.005	LC-MS/MS	P
Metolachlor	Colostrum	10	0.01	0.002	GC-MS/MS	P
Metominostrobin (E)	Colostrum	10	0.01	0.002	LC-MS/MS	P
Metominostrobin (Z)	Colostrum	10	0.01	0.002	LC-MS/MS	P
Metosulam	Colostrum	10	0.01	0.002	LC-MS/MS	P
Metrafenone	Colostrum	10	0.01	0.002	LC-MS/MS	P
Metribuzin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Metsulfuron-methyl	Colostrum	10	0.01	0.005	LC-MS/MS	P
Mevinphos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Mirex	Colostrum	10	0.01	0.002	GC-MS/MS	P
Molinate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Monensin*	Colostrum	10	0.009	0.009	LC-MS/MS	PC
Monocrotophos	Colostrum	10	0.01	0.005	LC-MS/MS	P
Monolinuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Moxidectin	Colostrum	10	0.04	0.003	LC-MS/MS	AN
Myclobutanil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Napropamide	Colostrum	10	0.01	0.002	GC-MS/MS	P
Narasin	Colostrum	10	0.1	0.017	LC-MS/MS	PC
N-benzyltrimethyldecylammonium chloride (BDM-C10)	Colostrum	10	0.1	0.01	LC-MS/MS	QAC
N-benzyltrimethylhexadecylammonium chloride (BDM-C16)	Colostrum	10	0.1	0.01	LC-MS/MS	QAC
N-benzyltrimethyloctadecylammonium chloride (BDM-C18)	Colostrum	10	0.1	0.01	LC-MS/MS	QAC
N-benzyltrimethyltetradecylammonium chloride (BDM-C14)	Colostrum	10	0.1	0.01	LC-MS/MS	QAC
N-didecyltrimethylammonium chloride (DM-DC10)	Colostrum	10	0.1	0.01	LC-MS/MS	QAC
N-didodecyltrimethylammonium chloride (DM-DC12)	Colostrum	10	0.1	0.01	LC-MS/MS	QAC
Neomycin	Colostrum	10	0.11	0.11	Delvotest T**	IS
Nitrofen	Colostrum	10	0.01	0.002	GC-MS/MS	P
Nitrothal-isopropyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Norflurazon	Colostrum	10	0.01	0.002	GC-MS/MS	P
Novaluron	Colostrum	10	0.1	0.005	LC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Octhilinone	Colostrum	10	0.01	0.002	LC-MS/MS	P
Oleandomycin	Colostrum	10	0.05	0.05	Microbial Inhibition	MIT
Omethoate	Colostrum	10	0.01	0.002	LC-MS/MS	P
Oryzalin	Colostrum	10	0.01	0.01	LC-MS/MS	P
Oxabetrinil	Colostrum	10	0.01	0.01	LC-MS/MS	P
Oxacillin	Colostrum	10	0.03	0.03	Delvotest T**	IS
Oxadiazon	Colostrum	10	0.01	0.002	GC-MS/MS	P
Oxadixyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Oxamyl	Colostrum	10	0.01	0.002	LC-MS/MS	P
Oxycarboxin	Colostrum	10	0.01	0.002	LC-MS/MS	P
Oxychlorane	Colostrum	10	0.01	0.005	GC-MS/MS	P
Oxyfluorfen	Colostrum	10	0.01	0.005	GC-MS/MS	P
Oxytetracycline	Colostrum	10	0.01	0.085	Delvotest T*	IS
Oxytetracycline	Colostrum	10	0.01	0.015	Microbial Inhibition	MIT
Paclobutrazol	Colostrum	10	0.01	0.002	GC-MS/MS	P
Parathion	Colostrum	10	0.01	0.002	GC-MS/MS	P
Parathion-methyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Penconazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pencycuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Pendimethalin	Colostrum	10	0.01	0.005	GC-MS/MS	P
Penicillin	Colostrum	10	0.004	0.002	Delvotest T*	IS
Penicillin	Colostrum	10	0.004	0.0004	Microbial Inhibition	MIT
Pentachlorobenzene	Colostrum	10	0.01	0.002	GC-MS/MS	P
Penthiopyrad	Colostrum	10	0.01	0.002	LC-MS/MS	P
Permethrin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Perthan	Colostrum	10	0.01	0.002	GC-MS/MS	P
Phenmedipham	Colostrum	10	0.01	0.002	LC-MS/MS	P
Phenthoate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Phenylbutazone	Colostrum	10	0.007	0.007	GC-MS/MS	NS
Phorate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Phorate sulfone	Colostrum	10	0.01	0.002	GC-MS/MS	P
Phorate sulfoxide	Colostrum	10	0.01	0.002	GC-MS/MS	P
Phosalone	Colostrum	10	0.01	0.002	GC-MS/MS	P
Phosmet	Colostrum	10	0.01	0.002	GC-MS/MS	P
Phosphamidon	Colostrum	10	0.01	0.002	LC-MS/MS	P
Phoxim	Colostrum	10	0.01	0.005	LC-MS/MS	P
Picolinafen	Colostrum	10	0.01	0.002	GC-MS/MS	P
Piperonyl butoxide	Colostrum	10	0.01	0.002	GC-MS/MS	P
Piperophos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pirimicarb	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pirimiphos-methyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pretilachlor	Colostrum	10	0.01	0.002	GC-MS/MS	P
Prochloraz	Colostrum	10	0.01	0.002	GC-MS/MS	P
Procymidone	Colostrum	10	0.01	0.002	GC-MS/MS	P



Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Profenofos	Colostrum	10	0.01	0.002	LC-MS/MS	P
Promecarb	Colostrum	10	0.01	0.002	GC-MS/MS	P
Prometryn	Colostrum	10	0.01	0.002	GC-MS/MS	P
Propachlor	Colostrum	10	0.01	0.002	GC-MS/MS	P
Propamocarb	Colostrum	10	0.01	0.01	LC-MS/MS	P
Propanil	Colostrum	10	0.01	0.01	LC-MS/MS	P
Propaphos	Colostrum	10	0.01	0.002	LC-MS/MS	P
Propaquizafop	Colostrum	10	0.01	0.002	LC-MS/MS	P
Propargite	Colostrum	10	0.01	0.002	GC-MS/MS	P
Propazine	Colostrum	10	0.01	0.002	GC-MS/MS	P
Propetamphos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Propham	Colostrum	10	0.01	0.002	GC-MS/MS	P
Propiconazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Propoxur	Colostrum	10	0.01	0.002	GC-MS/MS	P
Propyzamide	Colostrum	10	0.01	0.002	GC-MS/MS	P
Proquinazid	Colostrum	10	0.01	0.002	LC-MS/MS	P
Prosulfocarb	Colostrum	10	0.01	0.002	LC-MS/MS	P
Prothiofos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pymetrozine	Colostrum	10	0.01	0.002	LC-MS/MS	P
Pyraclofos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pyraclostrobin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pyraflufen-ethyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pyrasulfotole	Colostrum	10	0.01	0.005	LC-MS/MS	P
Pyrazophos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pyrethrins	Colostrum	10	0.01	0.005	LC-MS/MS	P
Pyributicarb	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pyridaben	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pyridaphenthion	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pyrifenox	Colostrum	10	0.01	0.002	LC-MS/MS	P
Pyriftalid	Colostrum	10	0.01	0.002	LC-MS/MS	P
Pyrimethanil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pyrimidifen	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pyriminobac-methyl (E)	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pyriminobac-methyl (Z)	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pyriproxyfen	Colostrum	10	0.01	0.002	GC-MS/MS	P
Pyroquilon	Colostrum	10	0.01	0.002	LC-MS/MS	P
Pyroxulam	Colostrum	10	0.01	0.002	LC-MS/MS	P
Quinalphos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Quinoclamine	Colostrum	10	0.01	0.005	LC-MS/MS	P
Quinoxifen	Colostrum	10	0.01	0.002	GC-MS/MS	P
Quintozene	Colostrum	10	0.01	0.002	GC-MS/MS	P
Quizalofop-ethyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Rifamixin	Colostrum	10	0.03	0.03	Delvotest T**	IS
Rimsulfuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Saflufenacil	Colostrum	10	0.01	0.002	LC-MS/MS	P
Salinomycin	Colostrum	10	0.1	0.009	LC-MS/MS	PC

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Sebuthylazine	Colostrum	10	0.01	0.002	GC-MS/MS	P
Selenium	Colostrum	10	2	0.002	Acid digest/ICPMS	EL
SEM (Nitrofurazone)	Colostrum	10	0.0005	0.0005	LC-MS/MS	N
Semduramycin	Colostrum	10	0.1	0.06	LC-MS/MS	PC
Sethoxydim	Colostrum	10	0.01	0.002	LC-MS/MS	P
Simazine	Colostrum	10	0.01	0.002	GC-MS/MS	P
Simeconazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Simetryn	Colostrum	10	0.01	0.002	GC-MS/MS	P
Spinetoram	Colostrum	10	0.01	0.002	LC-MS/MS	P
Spinosad	Colostrum	10	0.01	0.002	LC-MS/MS	P
Spiramycin	Colostrum	10	0.04	0.04	Microbial Inhibition	MIT
Spiromesifen enol	Colostrum	10	0.01	0.002	LC-MS/MS	P
Spiromesifen	Colostrum	10	0.01	0.005	LC-MS/MS	P
Spirotetramat	Colostrum	10	0.002	0.002	LC-MS/MS	P
Spirotetramat enol	Colostrum	10	0.005	0.005	LC-MS/MS	P
Spirotetramat enol-glucoside	Colostrum	10	0.005	0.005	LC-MS/MS	P
Spirotetramat-keto-hydroxy	Colostrum	10	0.002	0.002	LC-MS/MS	P
Spirotetramat-mono-hydroxy	Colostrum	10	0.002	0.002	LC-MS/MS	P
Spiroxamine	Colostrum	10	0.01	0.002	LC-MS/MS	P
Streptomycin	Colostrum	10	0.02	0.02	Microbial Inhibition	MIT
Sulfadiazine	Colostrum	10	0.1	0.1	Delvotest T*	IS
Sulfadimethoxine	Colostrum	10	0.04	0.04	Delvotest T**	IS
Sulfamethazine	Colostrum	10	0.15	0.15	Delvotest T**	IS
Sulfathiazole	Colostrum	10	0.03	0.03	Delvotest T**	IS
Sulfentrazone	Colostrum	10	0.01	0.005	LC-MS/MS	P
Sulprofos	Colostrum	10	0.01	0.002	LC-MS/MS	P
Tebuconazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Tebufenozide	Colostrum	10	0.01	0.01	LC-MS/MS	P
Tebufenpyrad	Colostrum	10	0.01	0.002	GC-MS/MS	P
Tebuthiuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Tecnazene	Colostrum	10	0.01	0.002	GC-MS/MS	P
Tefluthrin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Temephos	Colostrum	10	0.01	0.005	LC-MS/MS	P
Tepraloxymid	Colostrum	10	0.01	0.002	LC-MS/MS	P
Terbacil	Colostrum	10	0.01	0.002	GC-MS/MS	P
Terbufos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Terbumeton	Colostrum	10	0.01	0.002	LC-MS/MS	P
Terbuthylazine	Colostrum	10	0.01	0.002	GC-MS/MS	P
Terbutryn	Colostrum	10	0.01	0.002	GC-MS/MS	P
Tetrachlorvinphos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Tetraconazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Tetracycline	Colostrum	10	0.075	0.075	Delvotest T**	IS
Tetracycline	Colostrum	10	0.05	0.05	SNAP (tetracycline)	IS

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Tetracycline	Colostrum	10	0.015	0.015	Microbial Inhibition	MIT
Tetradifon	Colostrum	10	0.01	0.002	GC-MS/MS	P
Tetrahydrophthalimide-1,2,3,6	Colostrum	10	0.01	0.002	GC-MS/MS	P
Thenylchlor	Colostrum	10	0.01	0.002	GC-MS/MS	P
Thiabendazole	Colostrum	10	0.01	0.002	LC-MS/MS	P
Thiacloprid	Colostrum	10	0.05	0.002	LC-MS/MS	P
Thiamethoxam	Colostrum	10	0.05	0.005	LC-MS/MS	P
Thiazopyr	Colostrum	10	0.01	0.002	LC-MS/MS	P
Thidiazuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Thiobencarb	Colostrum	10	0.01	0.002	GC-MS/MS	P
Thiometon	Colostrum	10	0.01	0.002	GC-MS/MS	P
Tiadinil	Colostrum	10	0.01	0.002	LC-MS/MS	P
Tilmicosin*	Colostrum	10	0.05	0.06	Delvotest T**	IS
Tin	Colostrum	10	0.1	0.005	Acid digest/ICPMS	EL
Tolclofos-methyl	Colostrum	10	0.01	0.002	GC-MS/MS	P
Tolyfluanid	Colostrum	10	0.01	0.01	LC-MS/MS	P
Tralkoxydim	Colostrum	10	0.01	0.002	LC-MS/MS	P
Transfluthrin	Colostrum	10	0.01	0.005	GC-MS/MS	P
Triadimefon	Colostrum	10	0.01	0.005	GC-MS/MS	P
Triadimenol	Colostrum	10	0.01	0.005	GC-MS/MS	P
Tri-allate	Colostrum	10	0.01	0.002	GC-MS/MS	P
Triasulfuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Triazophos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Tribenuron-methyl	Colostrum	10	0.01	0.005	LC-MS/MS	P
Tribufos	Colostrum	10	0.01	0.002	GC-MS/MS	P
Trichlorfon	Colostrum	10	0.01	0.005	LC-MS/MS	P
Triclabendazole	Colostrum	10	0.01	0.005	LC-MS/MS	AN
Triclabendazole hydroxy	Colostrum	10	0.01	0.002	LC-MS/MS	AN
Triclabendazole sulfone	Colostrum	10	0.01	0.005	LC-MS/MS	AN
Triclabendazole sulfoxide	Colostrum	10	0.01	0.01	LC-MS/MS	AN
Tricyclazole	Colostrum	10	0.01	0.002	LC-MS/MS	P
Trifloxystrobin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Trifloxysulfuron-sodium	Colostrum	10	0.01	0.002	LC-MS/MS	P
Triflumizole	Colostrum	10	0.01	0.002	LC-MS/MS	P
Triflumuron	Colostrum	10	0.01	0.002	LC-MS/MS	P
Trifluralin	Colostrum	10	0.01	0.002	GC-MS/MS	P
Triflusulfuron-methyl	Colostrum	10	0.01	0.002	LC-MS/MS	P
Triforine	Colostrum	10	0.01	0.005	LC-MS/MS	P
Trimethoprim*	Colostrum	10	0.05	0.13	Delvotest T**	IS
Triticonazole	Colostrum	10	0.01	0.002	GC-MS/MS	P
Tylosin	Colostrum	10	0.05	0.05	Delvotest T*	IS
Tylosin	Colostrum	10	0.05	0.033	Microbial Inhibition	MIT
Uniconazole-P	Colostrum	10	0.01	0.002	GC-MS/MS	P
Vamidothion	Colostrum	10	0.01	0.002	LC-MS/MS	P

Compound	Matrix	Samples to test	Action limit mg/kg	LoR mg/kg	Method	Code**
Vinclozolin	Colostrum	10	0.01	0.002	GC-MS/MS	P
XMC	Colostrum	10	0.01	0.002	GC-MS/MS	P
Zinc	Colostrum	10	10	0.1	Acid digest/ICPMS	EL
Zoxamide	Colostrum	10	0.01	0.002	LC-MS/MS	P

Delvotest T\*      Verified in milk by the testing laboratory

Delvotest T\*\*      Manufacturers LOD

[compound]\*      Compounds are included even though the method may not detect down to action limits as it will still enable the conformance of milk at delivery to the processing premises to be assessed

\*\*\*      Action limit applies corrected to milk with 4% milkfat

\*\* refer Appendix 1 for code

## 4 Appendix 1: Code and method information

Table 4: Test method descriptions

Method	Description
Delvotest T	Bacterial inhibition assay
GC-ECD	Gas chromatography – electron capture detection
GC-MS/MS	Gas chromatography tandem mass spectrometry
HPLC	High-performance liquid chromatography
HPLC-FL	High-performance liquid chromatography with fluorescence detection
HPLC-UV	High-performance liquid chromatography with ultraviolet detection
ICPMS	Inductively coupled plasma mass spectrometer
LC-MS/MS	Liquid chromatography tandem mass spectrometry
Microbial Inhibition	Screen test using 4-plate microbial inhibition test (plate bioassay)
NIA	Calibrated nephelometric immune assay
SNAP (tetracycline)	Enzyme-linked receptor-binding assay which binds tetracycline

Table 5: Compound and compound group codes

Code	Compound or compound group
A6	An 'unauthorised substance' as listed in Annex 1, Group A (6) of Directive 96/23/EC
AF	Aflatoxin
AN	Anthelmintic
C	Dicyandiamide (DCD)
D	Corticosteroid
EL	Chemical element
IS	Inhibitory substance
MC	Milk component
N	Nitrofurans
NS	Nonsteroidal anti-inflammatory drug (NSAID)
O	Other - cyanuric acid, melamine, glyphosate, 1080, sodium thiocyanate
P	Pesticide
PC	Polyether coccidiostat
Pht	Phthalate
QAC	Quaternary ammonium compound