

Notice calling for suggestions, views, comments etc from WTO-SPS Committee Members within a period of 60 days on the draft amendment related to Pharmacologically active substance prohibited for fish and fishery products; Harmonization of Pesticides, Antibiotics and Veterinary Drugs Residues; Fixation of MRLs for 17 pesticides.

1. In the Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011, in regulation 2.3 relating to "Residues", for sub-regulations 2.3.1 and 2.3.2, the following shall be substituted, namely :-

"2.3.1: Insecticide Residues on Agricultural Commodities and Resultant Processed Food

1. Insecticides which are Registered under Insecticides Act, 1968 (46 of 1968)

In case of recommended crops as per Insecticides Act, 1968 (46 of 1968), maximum residue limits (MRLs) fixed under the regulations shall be retained as such unless there is any concern or new data available for modification appropriately. If MRLs are not fixed under regulation, then it may be checked whether codex MRL for the same is available or not. If codex MRL is available and if the recommended codex MRL is at LOQ, it shall be adopted as such. If the recommended codex MRL is above LOQ, then risk assessment shall be carried out taking codex value. In such cases if the exposure is within acceptable range, codex MRL shall be adopted. If the exposure is not within acceptable range appropriate refinement of risk assessment may be conducted. After refinement, if the value is within acceptable range, then codex MRL may be adopted. If not, then Central Insecticides Board and Registration Committee (CIB&RC) shall be requested to delete appropriate label claims. In such cases default tolerance limit of 0.01*mg/kg shall apply which is subjected to review on the basis of availability of relevant data. If there is no codex MRL, then it may be checked whether monitoring data is available or not. If monitoring data is available MRL may be calculated using OECD calculator followed by risk assessment. If the exposure is within acceptable range, fix the MRL accordingly and if the exposure is not within the acceptable range, appropriate refinement may be undertaken to ensure that ADI is not exceeding 100% and fix the MRL at the recalculated value. If monitoring data is not available, CIB&RC shall be requested to delete label claim on specific commodities. Till that time default tolerance limit of 0.01*mg/kg** shall apply which is subjected to modification or amendment based on availability of data.

2. In cases where insecticides which are not registered under Insecticides Act, 1968 (46 of 1968), a default tolerance limit value of 0.01 mg./kg. shall apply.
3. In cases of insecticides which are banned under Insecticides Act, 1968 (46 of 1968), it is to be identified whether monitoring data indicates residues at LOQ or higher than that. In case the value is at LOQ, the extraneous maximum residue limit (EMRL) as 0.01 mg./kg. at LOQ shall be adopted. In case the value is above LOQ, an EMRL based on monitoring data shall be fixed using OECD calculator. It shall be reviewed after every 5 years and amendment shall be made accordingly till the figure comes to LOQ.
4. The details in form of flow chart as per Annexure I.

2.3.2: Restriction on the use of insecticides

- (1) Subject to the provisions of regulation 2.3.2(2), no insecticides shall be used directly on articles of food:

Provided that nothing in this regulation shall apply to the fumigants which are registered and recommended for use as such on articles of food by the Registration Committee, constituted under section 5 of the Insecticides Act, 1968 (46 of 1968).

- (2) The amount of insecticide mentioned in column (2) on the foods mentioned in column (3), shall not exceed the Maximum Residue Limits (MRL) prescribed in column (4) of the Table given below:

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
1.	2,4-Dichlorophenoxy Acetic Acid	Sugarcane	0.01
		Food grains	0.01
		Milled food grains	0.01
		Potato	0.2
		Milk	0.05
		Meat and Poultry	0.05
		Eggs	0.05 (shell free basis)
		Fruits	2.0
		Potato	0.2

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
2.	Acephate	Rice	0.07
		Safflower seed	2.0
		Cotton Seed	2.0
		Milk	0.02
		Meat & Meat Products	0.01*
	(a) Methamido-phos- metabolite of Acephate	Safflower seed	0.1
		Cotton Seed	0.1
3.	Acetamiprid	Chilli	0.01
		Rice	0.01
		Okra	0.1
		Cabbage	0.03
		Milk	0.02
		Meat & Meat Products	0.01*
		Cottonseed Oil	0.1
4.	Alachlor	Cotton Seed	0.05
		Groundnut	0.05
		Maize	0.1
		Soybeans	0.1
5.	Alphacypermethrin	Cottonseed Oil	0.05
		Pine Apple	0.5
6.	Alphanaphthyl Acetic Acid	Tomato	0.1
		Chilli	0.2
		Mango	0.05
		Cottonseed Oil	0.05
		Grapes	0.05
		Pineapple	0.5

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
7.	Ametroctradin	Grapes	0.05*
		Potato	0.05*
		Cucumber	0.3
8.	Aminopyralid	Milk	0.01*
9.	Anilophos	Rice	0.1
10.	Atrazine	Maize	Nil
		Sugarcane	0.25
11.	Aureofungin	Citrus	0.01**
12.	Azimsulfuron	Rice	0.02*
13.	Azoxystrobin	Grapes	0.5
		Tomato	1.0
		Mango	0.01
		Chilli	1.0
		Cucumber	0.05*
		Potato	0.05
		Milk	0.01
		Cumin	0.03*
		Maize	0.03*
		Wheat	0.03*
		Rice	0.03*
14.	Benfuracarb	Red Gram	0.05
		Rice	0.05
15.	Benomyl	Food grains	0.5
		Milled food grains	0.1
		Vegetables	0.5
		Mango	2.0

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Banana (whole)	1.0
		Other fruits	5.0
		Cotton seed	0.1
		Groundnut	0.1
		Sugar beet	0.1
		Dry fruits	0.1
		Vegetables	0.5
		Eggs	0.1 (shell free basis)
		Meat & Poultry	0.1 (carcass fat basis)
		Milk	0.1 (F)
16.	Bensulfuron Methyl	Rice	0.01
17.	Beta Cyfluthrin	Okra	0.01
		Brinjal	0.01
		Cottonseed	0.02
18.	Bifenthrin	Sugarcane	0.03
		Rice	0.05
		Apple	0.5
		Tea	0.05
		Cottonseed	0.05
		Milk	0.01
19.	Bispyribac Sodium	Rice	0.05
20.	Bitertanol	Wheat	0.05
		Groundnut	0.1
		Milk	0.05
		Meat & Meat Products	0.01*

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Tea	0.05*
		Apple	0.4
21.	Buprofezin	Cottonseed Oil	0.01
		Chilli	0.01
		Mango	0.01
		Grapes	0.01
		Okra	0.01*
		Rice	0.05
		Milk	0.01
22.	Butachlor	Rice	0.05
23.	Captan	Rice	0.3
		Fruit & Vegetables	15
24.	Carbaryl	Sesamum	0.05
		Fish	0.2
		Food grains	1.5
		Milled food grains	Nil
		Okra and leafy vegetables	10
		Potato	0.2
		Other vegetables	5.0
		Cottonseed (whole)	1.0
		Maize cob (kernels)	1.0
		Rice	2.5
		Maize	0.5
		Chilli	5.0
		Mango	0.01**
		Sugarcane	0.01**
		Citrus (Orange)	0.01**

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Grapes	0.01**
		Milk	0.05
25.	Carbendazim	Food grains	0.5
		Milled food grains	0.1
		Vegetables	0.5
		Mango	2.0
		Banana (whole)	1.0
		Other fruits	5.0
		Cotton seed	0.1
		Groundnut	0.1
		Sugar beet	0.1
		Dry fruits	0.1
		Eggs	0.1(shell free basis)
		Meat & Poultry	0.1(Carcass fat basis)
		Milk	0.1 (F)
		Potato	0.01*
		Tea	0.01*
26.	Carbofuran (sum of 3-hydroxy carbofuran expressed as carbofuran))	Food grains	0.1
		Milled food grains	0.03
		Fruit & Vegetables	0.1
		Oil seeds	0.1
		Sugarcane	0.1
		Meat & Poultry	0.1 (carcass fat basis)
		Milk	0.05 (F)
		Pea	0.01**

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Tea	0.01**
27.	Carbosulfan	Chilli	2.0
		Rice	0.2
28.	Carfentazone Ethyl	Wheat	0.01
28 (a)	Carfentrazone ethyl plus Carfentrazone ethyl cholro propionic acid	Rice	0.1*
		Tea	0.02*
29.	Carpropamid	Rice	1.0
30.	Cartap Hydrochloride	Rice	0.5
31.	Chlorantraniliprole	Bengal Gram	0.03*
		Black Gram	0.03*
		Bitter Gourd	0.03*
		Okra	0.3
		Soybean	0.03*
		Pigeon pea	0.03*
		Tomato	0.03*
		Chilli	0.03*
		Brinjal	0.03*
		Rice	0.03
		Cabbage	0.03
		Sugarcane	0.03
		Cotton	0.03
		Milk	0.05
		Meat & Meat Products	0.01*
32.	Chlorfenapyr	Chilli	0.05
		Cabbage	0.05
33.	Chlorfluazuron	Cabbage	0.1*

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Cottonseed	0.01*
34.	Chlorimuron ethyl	Rice	0.01
		Soybean seed	0.01
		Wheat	0.05
35.	Chlormequat Chloride (CCC)	Potato	0.1
		Brinjal	0.1
		Grape	1.0
		Cotton Seed	1.0
36.	Chlorothalonil	Groundnut	0.1
		Potato	0.1
		Milk	0.07
		Meat & Meat Products	0.01*
37.	Chlorpropham	Potato	30
38.	Chlorpyrifos	Beans	0.01**
		Gram	0.01**
		Black Gram	0.01**
		Coconut	0.01**
		Tea	0.01**
		Groundnut	0.01**
		Food grains	0.05
		Milled food grains	0.01
		Fruits	0.5
		Potatoes and Onions	0.01
		Cauliflower and Cabbage	0.01
		Other vegetables	0.2
		Meat and Poultry	0.1

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		(carcass fat)	
		Milk	0.01(F)
		Cotton seed	0.05
		Cottonseed oil (crude)	0.03
		Carbonated Water	0.01
39.	Chlothianidin (Chlothianidin and its metabolites Thiazolymethylguanidine (TMG), Thiazolymethylurea (TZMU), Methylnitroguanidine (MNG) TMG)	Sugarcane	0.2*
		Cottonseed	0.02
		Cottonseed Oil	0.02
		Rice	0.02
		Tea	0.02*
		Milk	0.02
		Meat & Meat Products	0.01*
40.	Chromafenozide	Rice	0.03*
41.	Cinmethylene	Rice	0.05
42.	Clodinafop-propargyl	Soybean	0.05*
		Wheat	0.1
43.	Clomazone	Rice	0.01
		Soybean seed	0.01
		Soybean seed oil	0.01
44.	Copper Hydroxide	Rice	0.1*
		Potato	0.1*
		Grapes	0.1*
45.	Copper Oxychloride(determined as copper)	Fruit	20
		Potato	1.0
		Other vegetables	20
		Areca nut	0.01**

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Cardamom	0.01**
		Coconut	0.01**
		Coffee	0.01**
		Pepper	0.01**
46.	Copper Sulphate	Coffee	0.01**
		Cardamom	0.01**
		Citrus	0.01**
		Coconut	0.01**
		Guava	0.01**
		Papaya	0.01**
		Pea	0.01
47.	Cuprous Oxide	Paddy	0.01**
		Potato	0.01**
		Areca nut	0.01**
		Chilli	0.01**
		Citrus	0.01**
		Coffee	0.01**
		Grapes	0.01**
48.	Cyantranilipole	Grapes	0.01
		Pomegranate seed	0.01
		Pomegranate Juice	0.01
		Cabbage	0.01
		Chilli	0.05
		Tomato	0.03
		Gherkin	0.01
49.	Cyazofamid	Potato	0.02*
		Tomato	0.01*
		Grapes	1.0

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
50.	Cyhalofop-butyl	Rice	0.5
51.	Cymoxanil	Tomato	0.01*
		Potato	0.01
		Grapes	0.1
52.	Cypermethrin (sum of isomers) (Fat soluble residue)	Rice	0.01
		Cottonseed Oil	0.01
		Wheat grains	0.05
		Milled wheat grains	0.01
		Brinjal	0.2
		Cabbage	2.0
		Okra	0.2
		Oil seeds except groundnut	0.2
		Meat and Poultry	0.2 (carcass fat basis)
		Milk	0.01 (F)
	(a) Alpha Cypermethrin	Cottonseed Oil	0.05
53.	Deltamethrin (Decamethrin)	Chilli	0.05
		Red gram	0.01
		Mango	0.01
		Tea	2.0
		Okra	0.05
		Tomato	0.05
		Brinjal	0.3
		Groundnut	0.01*
		Cottonseed	0.1
		Food grains	0.5
		Milled Food grains	0.2

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Rice	0.05
		Milk	0.05
		Meat & Meat Products	0.5
54.	Diafenthiuron	Cardamom	0.5
		Brinjal	1.0
		Chilli green	0.05
		Chilli red	0.05
		Cottonseed Oil	1.0
		Cabbage	1.0
55.	Diazinon	Food grains	0.05
		Milled food grains	Nil
		Vegetables	0.5
56.	Dichlorvos (DDVP) (content of di- chloroacetaldehyde (D.C.A.) be reported where possible)	Food grains	1.0
		Milled food grains	0.25
		Vegetables	0.15
		Fruits	0.1
		Soybean	0.01**
		Milk	0.01
		Groundnut seeds	0.05
		Groundnut Oil	0.2
		Mustard seed/ Oil	0.01
57.	Diclofop-Methyl	Wheat	0.1
58.	Diclosulum	Soybean	0.05*
59.	Dicofol	Fruits and Vegetables	5.0
		Tea (dry manufactured)	5.0
		Chilli	1.0

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Sorghum	0.01**
60.	Difenoconazole	Chilli	0.01
		Rice	0.01
		Pomegranate	0.01*
		Milk	0.01
		Meat & Meat Products	0.01*
		Apple	0.01
		Grapes	0.01*
		Maize	0.01*
		Wheat	0.01*
		Tomato	0.2
61.	Diflubenzuron	Cottonseed	0.2
		Tea	0.01**
62.	Dimethoate (residue to be determined as dimethoate and expressed as dimethoate)	Mustard	0.01
		Fruits and Vegetables	2.0
		Chilli	0.5
		Paddy	0.01**
		Pepper	0.01**
		Milk	0.05
		Meat & Meat Products	0.05
63.	Dimethomorph	Grapes	0.05
		Potato	0.05
		Cucumber	0.2
64.	Dinocap	Mango	0.1
65.	Dinotefuron	Rice	0.03*

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Cottonseed Oil	0.05*
		Milk	0.1
66.	Dithianon	Apple	0.1
67.	Dithiocarbamates(the residue tolerance limit are determined and expressed as mg/CS ₂ /kg and refer separately to the residues arising from any or each group of dithiocarbamates)	Chilli	0.2
		Dry chilli	2.0
		Food Grains	0.2
		Milled food grains	0.05
		Potato	0.1
	(a) Dimethyl dithiocarbamates residue resulting from the use of ferbam or ziram, and	Tomato	3.0
	(b) Ethylene bis-dithiocarbamates resulting from the use of mancozeb, maneb or zineb (including zineb derived from nabam plus zinc sulphate)	Cherries	1.0
		Other fruits	3.0
	(c) Mancozeb	Chilli	1.0
		Cauliflower	0.02
		Groundnut	0.01
		Cumin	0.5
		Black Pepper	2.0
		Mustard seed	0.1
		Gherkin	0.1*
		Tea	0.05*
		Onion	4.0
		Milk	0.05
		Meat & Meat Products	0.1
	(d) metiram as CS ₂	Green chilli	0.05*

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Dry chilli	0.5
		Grapes	0.1*
		Potato	0.05*
		Tomato	5.0
		Groundnut seed	0.1
		Groundnut seed oil	0.1
		Milk	0.05
		Onion	0.05*
	(e) Zineb as CS ₂	Brinjal	0.01**
		Turmeric	2.0
		Tea	0.1*
68.	Diuron	Sugarcane	0.02
		Cottonseed	1.0
		Banana	0.1
		Maize	0.5
		Citrus (Sweet Orange)	1.0
		Grapes	1.0
69.	Dodine	Apple	5.0
70.	Edifenphos	Rice	0.02
		Rice bran	1.0
		Eggs	0.01(shell free basis)
		Meat and poultry	0.02 (carcass fat basis)
		Milk	0.01(F)
71.	Emamectin Benzoate	Cottonseed	0.02
		Cottonseed oil	0.02
		Okra	0.05

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Groundnut oil	0.05
		Milk	0.01*
72.	Epoxyconazole	Ground nut oil	0.05*
		Groundnut cake	0.05*
73.	Ethephon	Pomegranate	0.05
		Pine Apple	2.0
		Coffee	0.1
		Tomato	2.0
		Mango	2.0
74.	Ethion(Residues to be determined as ethion and its oxygen analogue and expressed as ethion)	Gram	0.01
		Pigeon Pea	0.01
		Soybean Seed	0.01
		Tea (dry manufactured)	5.0
		Cucumber and Squash	0.5
		Other Vegetables	1.0
		Cotton seed	0.5
		Milk	0.5 (F)
		Meat and Poultry	0.2 (carcass fat basis)
		Eggs	0.2 (shell free basis)
		Dry fruits	0.1 (shell free basis)
		Food grains	0.03
		Milled food grains	0.01
		Peaches	1.0
		Other fruits	2.0

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
75.	Ethofenprox (Etofenprox)	Rice	0.01
		Milk	0.02
		Meat & Meat Products	0.01*
76.	Ethoxysulfuron	Rice	0.01
77.	Etoxazole	Brinjal	0.2
		Tea	0.01*
78.	Famoxadone	Grapes	0.05
		Potato	0.05
		Tomato	0.01*
79.	Fenamidone	Potato	0.01
		Grapes	0.05
		Gherkin	0.2
80.	Fenarimol	Apple	5.0
81.	Fenazaquin	Apple	0.2
		Chilli (green)	0.5
		Okra	0.01
		Brinjal	0.01
		Tomato	0.01
		Tea	3.0
82.	Fenitrothion	Food grains	0.02
		Milled food grains	0.01
		Milk	0.05 (F)
		Meat	0.03
		Fruits	0.5
		Vegetables	0.3
83.	Fenobucarb (BPMC)	Rice	0.01

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
84.	Fenoxaprop-p-ethyl	Cottonseed	0.02
		Black gram	0.01
		Rice	0.02*
		Wheat	0.02
		Soybean seed	0.02
		Onion	0.05*
85.	Fenpropathrin	Brinjal	0.2
		Okra	0.5
		Chilli	0.2
		Tea(green/black)	1.0
		Rice	0.03*
		Cottonseed oil	0.05
		Milk	0.1
		Meat & Meat Products	0.02
86.	Fenpyroximate	Chilli	1.0
		Tea (green)	2.0
		Coconut Water	0.02
		Tea(Black)	0.2
87.	Fenthion(sum of fenthion, its oxygen analogue and their sulphoxides and sulphones expressed as Fenthion)	Food grains	0.1
		Milled food grains	0.03
		Onion	0.1
		Potato	0.05
		Beans	0.1
		Peas	0.5
		Tomato	0.5
		Other vegetables	1.0

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Musk melon	2.0
		Meat and Poultry	2.0 (carcass fat basis)
		Milk	0.05 (F)
88.	Fenvalerate (Fat soluble residue)	Cauliflower	2.0
		Brinjal	2.0
		Okra	2.0
		Cottonseed	0.2
		Cottonseed Oil	0.1
		Meat and Poultry	1.0 (carcass fat basis)
		Milk	0.01 (F)
		Red Gram	0.01**
		Bengal Gram	0.01**
		Groundnut	0.01**
		Cabbage	0.01**
		Tomato	0.01**
89.	Fipronil	Cottonseed Oil	0.01
		Rice	0.01
		Chilli	0.01
		Sugarcane	0.01
		Cabbage	0.01
		Grapes	0.01*
		Milk	0.02
		Meat & Meat Products	0.01
90.	Flonicamid	Rice	0.05*
		Cottonseed Oil	0.02*

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
91.	Fluazifop-p-butyl	Soybean	0.05
		Cotton seed Oil	0.01*
		Groundnut	0.01*
92.	Flubendiamide	Brinjal	0.1
		Bengal Gram	0.1
		Cottonseed Oil	0.1
		Rice	0.1
		Cabbage	0.05
		Tomato	0.07
		Pigeon pea	0.05
		Black gram	0.03
		Chilli	0.02
		Milk	0.1
93.	Fluchloralin	Cottonseed	0.05
		Soybean	0.05
		Rice	0.01**
		Onion	0.01**
		Okra	0.01**
		Groundnut	0.01**
		Wheat	0.01**
		Potato	0.01**
		Brinjal	0.01**
		Cabbage	0.01**
		Black Gram	0.01**
94.	Flufenacet	Rice	0.05
95.	Flusilazole	Rice	0.01
		Chili	0.01

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Milk	0.05
		Meat & Meat Products	0.2
		Groundnut	0.05*
96.	Fluvalinate	Cottonseed Oil	0.05
		Tea	0.01
97.	Forchlorfenuron	Grapes	0.01
98.	Fosetyl-Al	Grapes	10
		Cardamom	0.2
99.	Glufosinate Ammonium	Cottonseed Oil	0.05*
		Tea	0.01
		Milk	0.01*
100.	Glyphosate	Tea	1.0
		Rice	0.01
		Meat & Meat Products	0.05
101.	Halosulfuron methyl	Sugarcane	0.03*
102.	Hexaconazole	Mango	0.02
		Rice	0.02
		Ground nut seed	0.02
		Tea(black)	0.02
		Grapes	0.1
		Chilli	0.5
		Potato	0.02
		Soybean	0.02
		Apple	0.1
103.	Hexazinone	Sugarcane	0.02

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
104.	Hexythiazox	Tea	1.0
		Chilli (green)	0.01
		Dried Chilli	0.01
		Apple	0.3
105.	Hydrogen Cyanamide	Grapes	0.01
106.	Iodosulfuron Methyl Sodium	Wheat	0.01
107.	Imazethapyr	Soybean	0.01*
		Soybean oil	0.1
		Groundnut oil	0.1
108.	Imidacloprid	Citrus (Acid Lime)	0.5
		Groundnut Seed	0.05
		Mango	0.05
		Sugarcane	0.1
		Okra	2.0
		Sunflower Seed	0.5
		Chilli	0.3
		Grapes	0.05
		Tomato	1.0
		Cucumber	0.2
		Cottonseed Oil	0.05
		Rice	0.05
		Brinjal	0.01
		Milk	0.1
		Meat & Meat Products	0.02
109.	Indoxacarb	Tomato	0.05
		Chilli	0.01
		Pigeon pea	0.1

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Chick Pea	0.05
		Rice	0.05
		Soybean	0.05*
		Cottonseed	0.1
		Cottonseed Oil	0.1
		Cabbage	0.1
		Milk	0.1
		Meat & Meat Products	0.01
110.	Iprobenfos (Kitazin)	Rice	0.2
111.	Iprodione	Rape seed	0.5
		Mustard seed	0.5
		Rice	10
		Tomato	5.0
		Grapes	10
112.	Isoprothiolane	Rice	0.1
113.	Isoproturon	Wheat	0.1
114.	Kasugamycin	Rice	0.05
		Tomato	0.05
115.	Kresoxim Methyl	Milk	0.01
		Meat & Meat Products	0.05
116.	Lambdacyhalothrin	Brinjal	0.2
		Tomato	0.1
		Rice	0.01
		Okra	2.0
		Red Gram	0.01
		Bengal Gram	0.01

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Chilli Green	0.05
		Chilli Red	0.01
		Groundnut seed	0.01
		Onion	0.01
		Soybean	0.01
		Mango	0.02
		Grapes	0.05
		Cottonseed Oil	0.05
117.	Linuron	Pea	0.05
		Potato	0.01**
118.	Lufenuron	Cauliflower	0.1
		Pigeon pea	0.1
		Cottonseed	0.01
		Black Gram	0.02*
		Chilli	0.05
		Cabbage	0.3
		Pigeon pea	0.01
119.	Malathion (Malathion to be determined and expressed as combined residues of malathion and malaoxon)	Food grains	4.0
		Milled food grains	1.0
		Fruits	4.0
		Vegetables	3.0
		Dried fruits	8.0
		Carbonated Water	0.01
120.	Mandipropamid	Grapes	0.05*
		Tomato	0.05*
		Potato	0.05*
121.	Mepiquat Chloride	Potato	0.1
		Cottonseed	0.5

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Cottonseed Oil	0.5
122.	Mesosulfuron Methyl	Wheat	0.01
123.	Metaflumizone	Cabbage	0.05
124.	Metalaxyl	Pearl Millet (Bajra)	0.05
		Maize	0.05
		Sorghum	0.05
125.	Metalaxyl-M	Potato	0.01
		Grapes	0.05
		Black pepper	0.5
		Mustard Seed	0.01
		Chilli	0.02
126.	Methabenzthiazuron	Wheat	0.5
127.	Methomyl	Tomato	0.05
		Pigeon pea seeds	0.05
		Chilli	0.05
		Groundnut seed	0.05
		Grapes	0.05
		Soybean	0.01*
		Cottonseed	0.1
		Milk	0.01*
		Meat & Meat Products	0.02
128.	Methyl Chlorophenoxy Acetic Acid (MCPA)	Rice	0.05
		Wheat	0.05
		Milk	0.01*
129.	Methyl Parathion (combined residues of methyl parathion and	Rice	0.01
		Black Gram	0.01

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
	its oxygen analogue to be determined and expressed as methyl parathion)	Cottonseed oil	0.01
		Mustard seed/oil	0.01
130.	Metolachlor	Soybean Oil	0.05
		Milk	0.01*
131.	Metribuzin	Tomato	0.05*
		Sugarcane	0.01*
		Potato	0.05*
		Soybean Oil	0.1
		Wheat	0.03
132.	Metsulfuron Methyl	Rice	0.01
		Wheat	0.1
		Sugarcane	0.02
133.	Milbemectin	Chilli green	0.01
		Chilli red	0.01
134.	Monocrotophos	Food grains	0.03
		Milled Food grains	0.01
		Citrus fruits	0.2
		Other fruits	1.0
		Carrot, Turnip, Potatoes and Sugar beet	0.05
		Onion and Peas	0.1
		Other Vegetables	0.2
		Cottonseed	0.1
		Cottonseed Oil (raw)	0.05
		Meat and Poultry	0.02
		Milk	0.02
		Eggs	0.02 (shell free)

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
			basis)
		Coffee (Raw beans)	0.1
		Chilli	0.2
		Cardamom	0.5
		Green Gram	0.01**
		Pigeon Pea	0.01**
		Coconut	0.01**
135.	Myclobutanil	Apple	0.01
		Chilli	0.2
		Groundnut seed	0.1
		Grapes	1.0
136.	Novaluron	Chili	0.01
		Chickpea	0.01
		Cottonseed	0.01
		Cottonseed Oil	0.01
		Tomato	0.01
		Cabbage	0.01
137.	Orthosulfamuron	Paddy	0.1
138.	Oxadiargyl	Mustard Seed	0.05
		Onion	0.1
		Cumin	0.01
		Rice	0.1
139.	Oxadiazon	Rice	0.03
		Onion	0.01**
140.	Oxydemeton-Methyl	Cottonseed oil	0.01
		Chilli	2.0
		Dry chilli	20
		Mustard oil	0.01

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Food grains	0.02
		Milk	0.01
		Meat & Meat Products	0.01*
141.	Oxyfluorfen	Rice	0.05
		Groundnut Oil	0.05
		Mentha	0.01
		Tea	0.2
		Potato	0.01
		Onion	0.05
142.	Paclobutrazol	Mango	0.01
143.	Paraquat dichloride (Determined as Paraquatcations)	Food grains	0.1
		Milled food grains	0.03
		Potato	0.2
		Other vegetables	0.05
		Cottonseed	0.2
		Cottonseed oil (edible refined)	0.05
		Milk (whole)	0.01
		Fruits	0.05
		Tea	0.05
		Coffee	0.01**
144.	Penconazole	Grapes	0.2
		Black gram seed	0.02
		Mango	0.05
		Apple	0.02
		Milk	0.01
		Meat & Meat	0.05

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Products	
145.	Pencycuron	Rice	0.01
146.	Pendimethalin	Wheat	0.05
		Rice	0.05
		Soybean Oil	0.05
		Cottonseed Oil	0.05
		Chilli	0.05*
		Ground nut	0.01**
		Onion	0.01**
147.	Penoxuslum	Rice	0.1*
148.	Permethrin	Cucumber	0.5
		Cottonseed	0.5
		Soybean	0.05
		Sunflower Seed	1.0
149.	Phenthoate	Food grains	0.05
		Milled food grains	0.01
		Oilseeds	0.03
		Edible oils	0.01
		Eggs	0.05 (shell free basis)
		Meat & Poultry	0.05 (carcass fat basis)
		Milk	0.01 (F)
		Gram	0.01**
150.	Phorate (sum of Phorate, its oxygen analogue and their sulphoxides and sulphones, expressed as phorate)	Milled food grains	0.01
		Tomato	0.1
		Fruits	0.05
		Oil seeds	0.05

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Sugarcane	0.05
		Eggs	0.05 (shell free basis)
		Meat & Poultry	0.05 (carcass fat basis)
		Milk	0.05 (F)
		Green gram	0.01*
		Cottonseed Oil	0.01*
151.	Phosalone	Pears	2.0
		Citrus fruits	1.0
		Other fruits	5.0
		Potato	0.1
		Other vegetables	1.0
		Rapeseed/Mustard Oil (crude)	0.05
152.	Phosphamidon residues (expressed as the sum of phosphamidon and its desethyl derivative)	Food grains	0.05
		Milled food grains	Nil
		Fruits and Vegetables	0.2
153.	Picoxystrobin	Rice	0.05*
		Grapes	0.05*
154.	Pinoxaden	Wheat	0.02
155.	Pretilachlor	Rice	0.05
156.	Pirimiphos-methyl	Rice	0.5
		Food grains except Rice	5.0
		Milled food grains except rice	1.0
		Eggs	0.05 (shell free basis)

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Meat & Poultry	0.05 (carcass fat basis)
		Milk	0.05 (F)
157.	Profenofos	Cottonseed oil	0.05
		Soybean	0.01*
		Meat & Meat Products	0.05
158.	Prohexadione calcium	Apple	0.01*
159.	Propaquizafop	Black gram	0.01
		Soybean	0.01
		Onion	0.01*
160.	Propargite	Brinjal	2.0
		Chilli	2.0
		Apple	2.0
		Tea	10
161.	Propiconazole	Tea	0.1
		Groundnut seed	0.1
		Rice	0.05
		Soybean seed	0.01
		Wheat	0.05
		Milk	0.01
		Meat & Meat Products	0.01
162.	Propineb	Rice	0.05
		Tomato	1.0
		Apple	1.0
		Pomegranate	0.5
		Potato	0.5

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Green Chilli	2.0
		Grapes	0.5
163.	Pyraclostrobin	Grapes	0.05*
		Potato	0.05*
		Tomato	0.01
		Green chilli	0.05*
		Dry chilli	0.5
		Soybean	0.02*
		Cotton	0.02*
		Milk	0.03
		Onion	0.05*
		Groundnut oil	0.05*
		Ground nut cake	0.05*
164.	Pyrazosulfuron ethyl	Rice	0.01
165.	Pyrethrins (pyrethrum) (sum of pyrethrins I & II and other structurally related insecticide Ingredients of pyrethrum)	Food grains	Nil
		Milled food grains	Nil
		Fruits and Vegetables	1.0
166.	Pyridalyl	Cottonseed Oil	0.02
		Cabbage	0.02
		Okra	0.02
		Chilli	0.02
167.	Pyriproxyfen	Cottonseed	0.03*
		Cottonseed Oil	0.03*
		Brinjal	0.02
		Okra	0.03
		Chilli green	0.02
		Chilli red	0.02

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
168.	Pyriithiolac Sodium	Cottonseed Oil	0.02
169.	Pymetrozine	Rice	0.01*
170.	Quinalphos	Cauliflower	0.1
		Citrus	0.05
		Bengal Gram	0.05
		Cottonseed Oil	0.05
		Mustard seed oil	0.1
		Soybean	0.05
		Groundnut oil	0.3
		Rice	0.01
		Pigeon pea	0.01
		Cardamom	0.01
		Tea	0.01
		Fish	0.01
		Chilli	0.2
		Maize	0.01**
		Potato	0.01**
		Black Pepper	0.01**
171.	Quizalofop ethyl	Cottonseed	0.1
		Soybean seed	0.05
		Onion	0.01*
		Groundnut	0.1
		Black Gram	0.01*
172.	Quizalofop-P-tefuryl	Soybean Seed	0.02
		Cotton seed/ oil	0.05*
173.	Sirmate	Wheat	0.01
		Potato	0.01**

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Peanut	0.01**
174.	Sodium Aceflourofen	Soybean	0.05*
175.	Spinosad	Cottonseed oil	0.02
		Cabbage	0.02
		Cauliflower	0.02
		Red gram	0.01
		Chilli	0.01
		Meat & Meat Products	0.2
176.	Spiromesifen	Tomato	0.3
		Cotton	0.01*
		Apple	0.01
		Brinjal	0.5
		Chilli	0.1
		Tea (green & black)	1.0
		Okra	0.03
177.	Sulfosulfuron	Wheat	0.02
178.	Tebuconazole	Rice	0.05
		Green chilli	0.2
		Groundnut seed	0.05
		Groundnut oil	0.05
		Wheat	0.05
		Milk	0.01
		Tomato	2.0
		Meat & Meat Products	0.05
		Onion	0.5
179.	Thiacloprid	Cottonseed	0.05

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Cottonseed Oil	0.05
		Rice	0.01
		Brinjal	0.3
		Tea	5.0
		Soybean seed	0.03*
		Apple	0.05*
		Milk	0.05
		Meat & Meat Products	0.02
		Chilli (green)	0.02
		Chilli (red)	0.02
180.	Thifluzamide	Rice	0.05
181.	Thiodicarb	Cabbage	0.02
		Brinjal	0.05
		Red Gram	0.05
		Black Gram	0.03
		Chilli	0.01
		Cottonseed oil	0.02
		Meat & Meat Products	0.02
182.	Thiamethoxam	Rice	0.02
		Okra	0.5
		Cottonseed Oil	0.01
		Brinjal	0.3
		Tomato	0.01
		Wheat	0.01
		Tea	0.01
		Mango	0.01

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Potato	0.01
		Mustard seed	0.01
		Cumin	0.01
		Acid Lime	0.02
		Milk	0.05
		Meat & Meat Products	0.01
183.	Thiometon(Residues determined as thiometon its sulfoxide and sulphone expressed as thiometon)	Food grains	0.03
		Milled food grains	0.01
		Fruits	0.5
		Potato, Carrots and Sugar beets	0.05
		Other vegetables	0.5
184.	Thiophanate-Methyl	Apple	5.0
		Papaya	7.0
		Bottle gourd	0.01**
		Milk	0.05
		Wheat	0.03*
		Bottle gourd	0.4
		Pigeon pea	0.03*
		Cucumber	0.2
		Grapes	3
185.	Tolfenpyrad	Cabbage	0.01*
		Okra	0.7
186.	Trichlorfon	Food grains	0.05
		Milled food grains	0.01
		Sugar beet	0.05
		Fruits &	0.1

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Vegetables	
		Oil seeds	0.1
		Edible oil (Refined)	0.05
		Meat & Poultry	0.1
		Milk	0.05
187.	Triaccontanol	Milk	0.01
188.	Triadimefon	Wheat	0.5
		Pea	0.1
		Grapes	2.0
		Milk	0.01
		Meat & Meat Products	0.01
		Chilli	0.4
		Coffee	0.01*
		Mango	0.03*
		Soybean	0.02*
189.	Trifloxystrobin and its metabolites (carboxylic acid-CGA321113)	Tomato	1.0
190.	Triallate	Wheat	0.05
191.	Triasulfuron	Wheat	0.01*
192.	Triazophos	Chilli	0.2
		Rice	0.05
		Cottonseed oil	0.1
		Soybean oil	0.05
193.	Tricyclazole	Rice	3.0
194.	Tridemorph	Wheat	0.1

Sl. No. (1)	Name of the Insecticide (2)	Food (3)	MRL in mg/kg (4)
		Grapes	0.5
		Mango	0.05
195.	Trifluralin	Wheat	0.05
196.	Validamycin	Rice	0.01
197.	Flupicolide	Grapes	0.02*
198.	Tembotrione	Maize	0.02*

* MRL fixed at LOQ

** Insecticides are registered under the Insecticide Act, 1968 (46 of 1968) but label claim for the said commodity are not fixed hence MRL fixed at LOQ

F: MRL Calculation on Fat Basis

Note: All these MRL/tolerance limit values are provisional for a period of five years and not fixed on the basis of actual data in the Indian context. They may be reviewed after five years or as and when the relevant scientific data is made available to FSSAI, whichever is earlier.

(3) The following insecticides mentioned in column (2) against the specified food in column (3) are banned as per the Insecticides Act, 1968 (46 of 1968).

Sl. No. (1)	Name of Insecticide (2)	Food (3)
1.	Aldicarb (sum of Aldicarb its sulphoxide and sulphone, expressed as Aldicarb)	Potato
2.	Aldrin, dieldrin (the limits apply to aldrin and dieldrin singly or in any combination and are expressed as dieldrin)	Food grains
		Milled Food grains
		Milk and Milk products
		Fruits and Vegetables
		Meat
		Eggs
3.	Chlordane (residue to be measured as cis plus trans chlordane)	Food grains
		Milled food grains
		Milk and milk products

Sl. No. (1)	Name of Insecticide (2)	Food (3)
		Vegetables
		Fruits
		Sugar beet
4.	D.D.T (The limits apply to D.D.T., D.D.D. and D.D.E. singly or in any combination)	Milk & milk products
		Fruits & vegetables including potato, meat, poultry & fish
		Eggs
5.	D.D.T. (singly)	Carbonated Water
6.	D.D.D. (singly)	Carbonated Water
7.	D.D.E. (singly)	Carbonated Water
8.	Dieldrin	Food grains
		Milled Food grains
		Milk and Milk products
		Fruits and Vegetables
		Meat
		Eggs
9.	Heptachlor (combined residues of heptachlor and its epoxide to be determined and expressed as Heptachlor)	Food grains
		Milled food grains
		Milk and Milk Products
		Vegetables
10.	Lindane Gamma-HCH) Gamma (γ) Isomer (Known as Lindane)	Food grains except rice
		Milled food grains
		Rice grain Unpolished
		Rice grain polished
		Milk
		Milk products
		Milk products
		Fruits and vegetable
		Fish
		Eggs
		Meat and poultry
		Carbonated Water
11.	Endosulfan	Sorghum
		Gram
		Fruits & Vegetables

Sl. No. (1)	Name of Insecticide (2)	Food (3)
		Cottonseed
		Cottonseed Oil
		Bengal Gram
		Pigeon Pea
		Fish
		Groundnut oil
		Paddy
		Tea
		Chilli
		Cardamom
12.	Endosulfan A	Carbonated Water
13.	Endosulfan B	Carbonated Water
14.	Endosulfan- Sulphate	Carbonated Water
15.	Methomyl 12.5% L &Methomyl 24% formulation	Cotton seed
16.	Phosphamidon 85% SL Phosphamidon residues (expressed as the sum of phosphamidon and its desethyl derivative)	Food grains
		Milled food grains
		Fruits and Vegetables
17.	Captafol 80% Powder	Tomato
18.	Ferbam (a) Dimethyl dithiocarbamates residue resulting from the use of ferbam or ziram	Tomatoes
19.	Formothion (Determined as dinethoate and its oxygen Analogue and expressed as dimethoate except incase of citrus fruits where it is to be determined as formothion)	Citrus fruits
		Other fruits
		Vegetable
		Pepper ,Tomatoes
20.	Simazine	Maize
		Sugarcane.

2.3.3: *Drugs, Pesticides and Antimicrobials Including Antibiotics for Veterinary Use*

A. Drugs, Pesticides and Antimicrobials including Antibiotics for Veterinary Use, registered under Drugs and Cosmetic Act, 1940 (23 of 1940)

1. Antimicrobials Including Antibiotics -

(i) Used in both humans and animals:

The MRL/ tolerance limit shall be fixed at LOQ for this category.

(ii) Exclusively used in animals:

In case of antimicrobials, including antibiotics which are exclusively used for animals, codex MRLs/ tolerance limit may be adopted wherever available. The cases for which codex MRLs are not available, MRL to be fixed at LOQ/minimum required performance limit (MRPL) until the fresh data are made available to FSSAI for revision of MRLs, after due risk assessment. In the said case the MRL shall be valid for a period of 5 years during which the manufacturer is required to submit the data for revision or otherwise the same shall continue.

2. Other Veterinary Drugs -

For all other veterinary drugs, codex MRLs/ tolerance limit may be adopted wherever available. For veterinary drugs for which codex MRLs are not available, MRL to be fixed at LOQ/MRPL till the fresh data is made available to FSSAI for revision of MRLs after due risk assessment. The MRLs fixed now shall be valid for a period of 5 years during which the manufacturer is required to submit the data for revision or otherwise the same shall continue.

3. Pesticides used for topical application -

For all pesticides used for topical application, the regulations/codex MRLs/tolerance limit may be adopted wherever available. If no regulations/codex MRLs/tolerance limits are available, risk assessment based on the metabolism data and withdrawal period shall be done; which is to be considered in conjunction with its MRL/tolerance limit, if any, as pesticide; to find out the residues left in the tissues/ milk/ eggs as well as the crops in which it is allowed to be used. Thereafter, appropriate MRLs/ tolerance limits may be fixed.

B. Drugs, Pesticides and Antimicrobials including Antibiotics for Veterinary Use, not registered under Drugs and Cosmetics Act, 1940(23 of 1940)

Drugs, pesticides and antimicrobials including antibiotics for veterinary use which are not registered under Drugs and Cosmetic Act, 1940 for use in India, shall have a default tolerance limit of 0.001 mg/kg. Since this category includes import tolerances, in case of any objection from the exporting country, the relevant data shall be asked from the exporting country for review and, if appropriate, necessary upward revision of the tolerance limit can be made.

C. Wherever the MRL/tolerance limits are fixed without any data, it should be prefixed with "T" (Temporary).

Note: All the MRL/tolerance limit values are provisional for a period of five years. They may be reviewed after five years or as and when the relevant scientific data is made available to FSSAI, whichever is earlier.

The details are in form of flow chart as per Annexure II.

2.3.4: Antibiotic and other Pharmacologically Active Substances

- (1) The amount of antibiotic mentioned in column (2), on the sea foods including shrimps, prawns or any other variety of fish and fishery products, shall not exceed the tolerance limit prescribed in column (3) of the table given below:—

TABLE

Sl. No.	Name of Antibiotics	Tolerance limit mg/kg (ppm)
1.	Tetracycline	0.1
2.	Oxytetracycline	0.1
3.	Trimethoprim	0.05
4.	Oxolinic acid	0.3

- (2) The use of any of the following antibiotics and other Pharmacologically Active Substances shall be prohibited in any unit processing sea foods including shrimps, prawns or any other variety of fish and fishery products —

1. Nitrofurans including

- i. Furaltadone
- ii. Furazolidone
- iii. Nitrofurantoin
- iv. Nitrofurazone

2. Chloramphenicol

3. Sulphamethoxazole

4. *Aristolochia* spp and preparations thereof

5. Chloroform

6. Chlorpromazine

7. Colchicine

8. Dapsone

9. Dimetridazole

10. Metronidazole

11. Ronidazole

12. Iprnidazole and other nitromidazoles

13. Clenbuterol

14. Diethylstilbestrol (DES)
15. Glycopeptides
16. Stilbenes and other steroids
17. Crystal Violet
18. Malachite Green

(3) The limit of antibiotics mentioned in column (2), in honey on the basis of Limit of Quantification, shall not exceed the tolerance limit prescribed in column (3) when determined by the LC-MS/MS method in the table given below:-

Sl. No.	Name of Antibiotics	Tolerance Limit (microgram/kg)
1.	Chloramphenicol	0.3*
2.	Nitrofurans and its metabolites	0.5* either individually or collectively
3.	Sulphonamides and its metabolites	5.0* either individual or collectively
4.	Streptomycin	5.0*
5.	Tetracycline	5.0*
	(a) Oxytetracycline	5.0*
	(b) Chlortetracycline	5.0*
6.	Ampicillin	5.0*
7.	Enrofloxacin	5.0*
8.	Ciprofloxacin	5.0*
9.	Erythromycin	5.0*
10.	Tylosin	5.0*
	* Limit of Quantification on the basis of LC-MS/MS method.	

(4) The limit of antibiotics mentioned in column (2), for the tissues mentioned in column (3), shall not exceed the tolerance limit prescribed in column (4) of the tables given below:-

1. Antibiotics (Used Both in Humans & Animals)

S. No.	Name	Food	Tolerance limit (mg/Kg)
1.	Ampicillin	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
2.	Cloxacillin	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
3.	Chloramphenicol	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
4.	Dihydrostreptomycin Sulphate – (Dihydrostreptomycin)/ Streptomycin	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
5.	Chlortetracycline Hydrochloride	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
6.	Erythromycin Thiocyanate	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
7.	Flumequine	• All edible animal tissue • Fats derived	0.01

S. No.	Name	Food	Tolerance limit (mg/Kg)
		from animal tissues • Milk	
8.	Furazolidone	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
9.	Lincomycin	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
10.	Oxytetracycline	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
11.	Salinomycin	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
12.	Spectinomycin Hydrochloride (Spectinomycin)	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
13.	Sulphadiazine	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
14.	Sulphathiazole Sodium	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01

S. No.	Name	Food	Tolerance limit (mg/Kg)
15.	Trimethoprim	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
16.	Cloxacillin	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
17.	Dicloxacillin	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
18.	Sulfadiazine	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
19.	Sulfanilamide	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
20.	Sulfaguanidine	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
21.	Zinc Bacitracin (minimum 60IU/mg dried substance)	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01

2. Antibiotics (Exclusive use in Animals)

S.No	Name	Food	Tolerance limit (mg/Kg)
1.	Amprolium Hydrochloride	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
2.	Apramycin Sulphate	Cattle Kidney Sheep Kidney	0.01 0.01
3.	Carbadox	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
4.	Ceftiofur Sodium (Ceftiofur)	Cattle Muscle Liver Kidney Fat Milk Pig Muscle Liver Kidney Fat	1 2 6 2 0.1 1 2 6 2
5.	CeftiofurHCl (Ceftiofur)	Cattle Muscle Liver Kidney Fat Milk Pig Muscle Liver Kidney Fat	1 2 6 2 0.1 1 2 6 2
6.	Cephapirine Benzathine interauterine	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01

S.No	Name	Food	Tolerance limit (mg/Kg)																																																																
7.	Clopidol	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01																																																																
8.	Cloxacillin Benzathine	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01																																																																
9.	Colistin Sulphate	<table><tr><td colspan="2">Cattle</td></tr><tr><td>Fat</td><td>0.15</td></tr><tr><td>Muscle</td><td>0.15</td></tr><tr><td>Kidney</td><td>0.2</td></tr><tr><td>Liver</td><td>0.05</td></tr><tr><td>Milk</td><td>0.15</td></tr><tr><td colspan="2">Pig</td></tr><tr><td>Muscle</td><td>0.15</td></tr><tr><td>Fat</td><td>0.15</td></tr><tr><td>Liver</td><td>0.15</td></tr><tr><td>Kidney</td><td>0.2</td></tr><tr><td colspan="2">Sheep</td></tr><tr><td>Liver</td><td>0.15</td></tr><tr><td>Milk</td><td>0.05</td></tr><tr><td>Muscle</td><td>0.15</td></tr><tr><td>Kidney</td><td>0.2</td></tr><tr><td>Fat</td><td>0.15</td></tr><tr><td colspan="2">Goat</td></tr><tr><td>Kidney</td><td>0.2</td></tr><tr><td>Muscle</td><td>0.15</td></tr><tr><td>Liver</td><td>0.15</td></tr><tr><td>Fat</td><td>0.15</td></tr><tr><td colspan="2">Rabbit</td></tr><tr><td>Fat</td><td>0.15</td></tr><tr><td>Muscle</td><td>0.15</td></tr><tr><td>Liver</td><td>0.15</td></tr><tr><td>Kidney</td><td>0.2</td></tr><tr><td colspan="2">Chicken</td></tr><tr><td>Kidney</td><td>0.2</td></tr><tr><td>Liver</td><td>0.15</td></tr><tr><td>Eggs</td><td>0.3</td></tr><tr><td>Fat</td><td>0.15</td></tr></table>	Cattle		Fat	0.15	Muscle	0.15	Kidney	0.2	Liver	0.05	Milk	0.15	Pig		Muscle	0.15	Fat	0.15	Liver	0.15	Kidney	0.2	Sheep		Liver	0.15	Milk	0.05	Muscle	0.15	Kidney	0.2	Fat	0.15	Goat		Kidney	0.2	Muscle	0.15	Liver	0.15	Fat	0.15	Rabbit		Fat	0.15	Muscle	0.15	Liver	0.15	Kidney	0.2	Chicken		Kidney	0.2	Liver	0.15	Eggs	0.3	Fat	0.15	
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S.No	Name	Food	Tolerance limit (mg/Kg)
		Turkey	
		Muscle	0.15
		Liver	0.15
		Kidney	0.2
		Fat	0.15
10.	Danofloxacin	Cattle	
		Muscle	0.2
		Liver	0.4
		Kidney	0.4
		Fat	0.1
		Pig	
		Muscle	0.1
		Liver	0.05
		Kidney	0.2
		Fat	0.1
		Chicken	
		Muscle	0.2
		Liver	0.4
		Kidney	0.4
		Fat	0.1
11.	Enrofloxacin	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
12.	Ethopabate	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
13.	Flavophospholipol (Flavomycin)	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
14.	Monensin Sodium (Monensin)	Cattle	
		Muscle	0.01
		Liver	0.1

S.No	Name	Food	Tolerance limit (mg/Kg)
		Kidney	0.01
		Fat	0.1
		Milk	0.002
		Sheep	
		Muscle	0.01
		Liver	0.02
		Kidney	0.01
		Fat	0.1
		Goat	
		Muscle	0.01
		Liver	0.02
		Kidney	0.01
		Fat	0.1
		Chicken	
		Muscle	0.01
		Liver	0.01
		Kidney	0.01
		Fat	0.1
		Turkey	
		Muscle	0.01
		Liver	0.01
		Kidney	0.01
		Fat	0.1
		Quail	
		Liver	0.01
		Kidney	0.01
		Muscle	0.01
		Fat	0.1
15.	Moxidectin	Cattle	
		Muscle ¹	0.02
		Liver	0.1
		Kidney	0.05
		Fat	0.5
		Sheep	
		Muscle	0.05
		Liver	0.1
		Kidney	0.05
		Fat	0.5
16.	Sulphaquinoxaline	- All edible animal tissue - Fats derived from animal tissues	0.01

S.No	Name	Food	Tolerance limit (mg/Kg)
		• Milk	
17.	Sulfadimidine Sodium	Cattle	
		Milk	0.02
		Not specified	
		Muscle	0.1
		Fat	0.1
		Kidney	0.1
		Liver	0.1
18.	Tilmicosin	Cattle	
		Muscle	0.1
		Liver	1
		Kidney	0.3
		Fat	0.1
		Pig	
		Muscle	0.1
		Liver	1.5
		Kidney	1
		Fat	0.1
		Sheep	
		Liver	1
		Kidney	0.3
		Fat	0.1
		Chicken	
		Liver	2.4
		Kidney	0.6
		Muscle	0.15
		Fat/Skin	0.1
		Turkey	
		Liver	1.4
		Kidney	1.2
		Muscle	0.1
		Fat	0.25
19.	Tylosin	Cattle	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Fat	0.1
		Pig	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1

S.No	Name	Food	Tolerance limit (mg/Kg)
		Fat	0.1
		Sheep	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Chicken	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Fat/Skin	0.1
		Eggs	0.3
20.	Tyvalosin Tartrate	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
21.	Virginiamycin	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01

3. Other Veterinary Drugs

S.No.	Name	Tissue	MRL (mg/Kg)
1.	Acepromazine Maleate	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
2.	Albendazole	Species Not Specified	
		Muscle	0.1
		Liver	5
		Kidney	5
		Fat	0.1
		Milk	0.1

S.No.	Name	Tissue	MRL (mg/Kg)
3.	Amitraz	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
4.	Aspirin	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
5.	Buqarvaquone	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
6.	Buserelin Acetate	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
7.	Butafosfane	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
8.	Butalex	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01

S.No.	Name	Tissue	MRL (mg/Kg)
9.	Butaphosphan	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
10.	Calcium Borogluconate	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
11.	Calcium Magnesium Borogluconate	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
12.	carboprost tromethamine	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
13.	Cefquinone Sulphate	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
14.	Chloral hydrate	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01

S.No.	Name	Tissue	MRL (mg/Kg)
15.	Claprostenol sodium	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
16.	Clospostenol Sodium	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
17.	Closantel	Cattle	
		Muscle	1
		Liver	1
		Kidney	3
		Fat	3
		Sheep	
		Muscle	1.5
		Liver	1.5
		Kidney	5
		Fat	2
18.	Clenbutrol Hydrochloride (Broncopulmin powder)	Cattle	
		Muscle	0.0002
		Milk	0.00005
		Liver	0.0006
		Kidney	0.0006
		Fat	0.0002
		Horse	
		Muscle	0.0002
		Fat	0.0002
		Liver	0.0006
		Kidney	0.0006
19.	Diethylcarbamazine	All edible	0.01

S.No.	Name	Tissue	MRL (mg/Kg)
		animal tissue - Fats derived from animal tissues - Milk	
20.	Dimetridazole	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
21.	Dinitolmide	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
22.	Doramectone	Cattle	
		Muscle	0.01
		Liver	0.1
		Kidney	0.03
		Fat	0.15
		Milk	0.015
		Pig	
		Muscle	0.01
		Liver	0.1
		Kidney	0.03
		Fat	0.15
23.	Dexcloprostenolum	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
24.	Flunixin Meglumine	- All edible animal tissue - Fats derived from animal tissues	0.01

S.No.	Name	Tissue	MRL (mg/Kg)
		Milk	
25.	Halofuginone	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
26.	Haloxon	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
27.	Ivermectin	Cattle	
		Milk	0.01
		Liver	0.1
		Fat	0.04
		Pig	
		Liver	0.015
		Fat	0.02
		Sheep	
		Liver	0.015
		Fat	0.02
28.	Kaolin	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
29.	Ketamine hydrochloride	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
30.	Levamisole Hydrochloride (Levamisole)	Cattle	
		Muscle	0.01
		Liver	0.1

S.No.	Name	Tissue	MRL (mg/Kg)
		Kidney	0.01
		Fat	0.01
		Pig	
		Muscle	0.01
		Liver	0.1
		Kidney	0.01
		Fat	0.01
		Sheep	
		Muscle	0.01
		Liver	0.1
		Kidney	0.01
		Fat	0.01
		Poultry	
		Muscle	0.01
		Liver	0.1
		Kidney	0.01
		Fat	0.01
31.	Lithium Antimony Thiomalate	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
32.	Luprostiol	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
33.	Madramicin	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
34.	Magnesium Hypophosphite	- All edible animal tissue - Fats derived from animal tissues	0.01

S.No.	Name	Tissue	MRL (mg/Kg)
		• Milk	
35.	Mastijet Flarte	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
36.	Meloxicam	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
37.	Mepyramine	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
38.	Methyl Hydroxybenzoate	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
39.	Nandrolone Laurate	• All edible animal tissue • Fats derived from animal tissues • Milk	0.01
40.	Niclosamide	• All edible animal tissue • Fats derived from animal tissues	0.01

S.No.	Name	Tissue	MRL (mg/Kg)
		Milk	
41.	Nimesulide	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
42.	Nitroscanate	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
43.	Nitroxynil	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
44.	Oxybendazole	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
45.	Oxfendazole	Group MRLs for the sum of fenbendazole, oxfendazole and oxfendazole sulfone (as oxfendazole sulfone equivalents)	
		Cattle	
		Muscle	0.1
		Liver	0.5
		Kidney	0.1
		Fat	0.1
		Milk	0.1
		Pig	
		Muscle	0.1
		Liver	0.5
		Kidney	0.1

S.No.	Name	Tissue	MRL (mg/Kg)
		Fat	0.1
		Sheep	
		Muscle	0.1
		Liver	0.5
		Kidney	0.1
		Fat	0.1
		Milk	0.1
		Goat	
		Muscle	0.1
		Liver	0.5
		Kidney	0.1
		Fat	0.1
46.	Oxyclozanide	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
47.	Parbendazole	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
48.	Pentobarbitone	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
49.	Praziquantel	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
50.	Pregnant Mare Serum Gonadotrophin	All edible animal tissue	0.01

S.No.	Name	Tissue	MRL (mg/Kg)
		- Fats derived from animal tissues - Milk	
51.	Proligestone	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
52.	Promazine Hydrochloride	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
53.	Propofol	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
54.	Prosolvin	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
55.	Rafoxanide	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
56.	Ronidazole	All edible animal tissue	0.01

S.No.	Name	Tissue	MRL (mg/Kg)
		- Fats derived from animal tissues - Milk	
57.	Semduramycin Sodium	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
58.	Sulpha Chloropyrazine Sodium	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
59.	Sulphaquinoxaline	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
60.	Suramin	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
61.	Thiabendazole ²	Cattle	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Fat	0.1
		Milk	0.1 mg/l
		Pig	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1

S.No.	Name	Tissue	MRL (mg/Kg)
		Fat	0.1
		Sheep	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Fat	0.1
		Goat	
		Muscle	0.1
		Liver	0.1
		Kidney	0.1
		Fat	0.1
		Milk	0.1 mg/l
62.	Tiamulin Hydrogen Fumarate	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
63.	Totrazuril	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
64.	Tylvalosin tartrate	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
65.	Triclabendazole	Cattle	
		Muscle	0.25
		Liver	0.85
		Kidney	0.4
		Fat/Skin	0.1
		Sheep	
		Muscle	0.2
		Liver	0.3
		Kidney	0.2
		Fat/Skin	0.1

S.No.	Name	Tissue	MRL (mg/Kg)
66.	Xylazine HCl	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
67.	Clorsulon	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
68.	Diminazene Diaceturate (Diminazene)	Cattle	
		Muscle	0.5
		Liver	12
		Kidney	6
		Milk	0.15 mg/l
69.	Hydrocortisone	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
70.	Phenazone	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
71.	Praziquantel	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
72.	Quinapyramine sulphate	All edible animal tissue	0.01

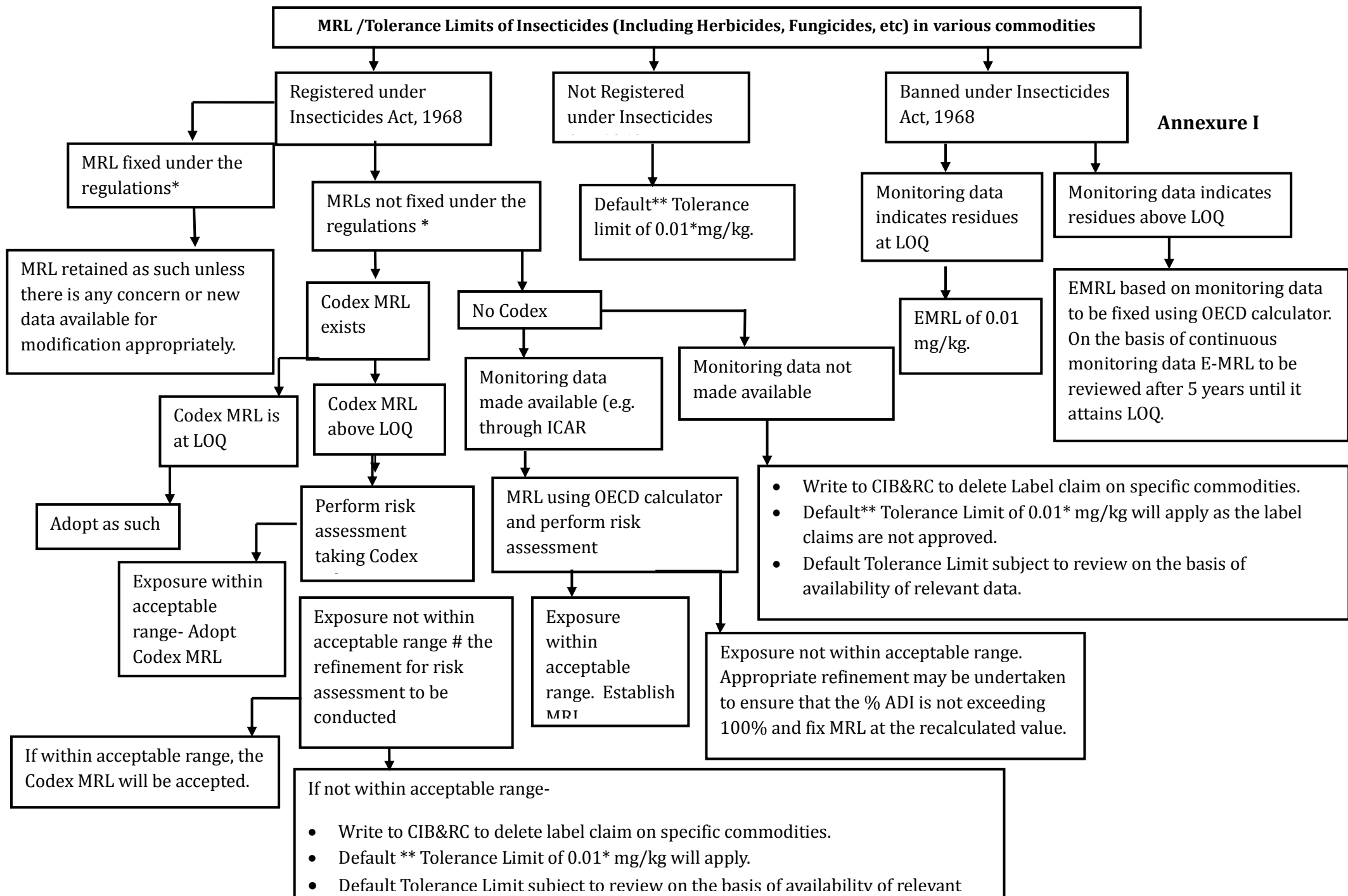
S.No.	Name	Tissue	MRL (mg/Kg)
		- Fats derived from animal tissues - Milk	
73.	Cefphactril Sodium	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
74.	Chlorpyridazine Sod.	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
75.	Coligen	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
76.	Doramectone	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01
77.	Tiaprost Trometamoal	- All edible animal tissue - Fats derived from animal tissues - Milk	0.01

Explanation. - For the purpose of this regulation:

(a) the expression “insecticide” shall have the meaning assigned to it in the Insecticide Act, 1968 (46 of 1968);

(b) Name of the insecticides (includes herbicides, fungicides, pesticides etc.) as per the Insecticides Act, 1968 (46 of 1968) and the Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011;

(c) The insecticides which are neither registered in India under Insecticides Act, 1968 nor recommended for use on a food shall have a tolerance limit of 0.01* mg/kg.”

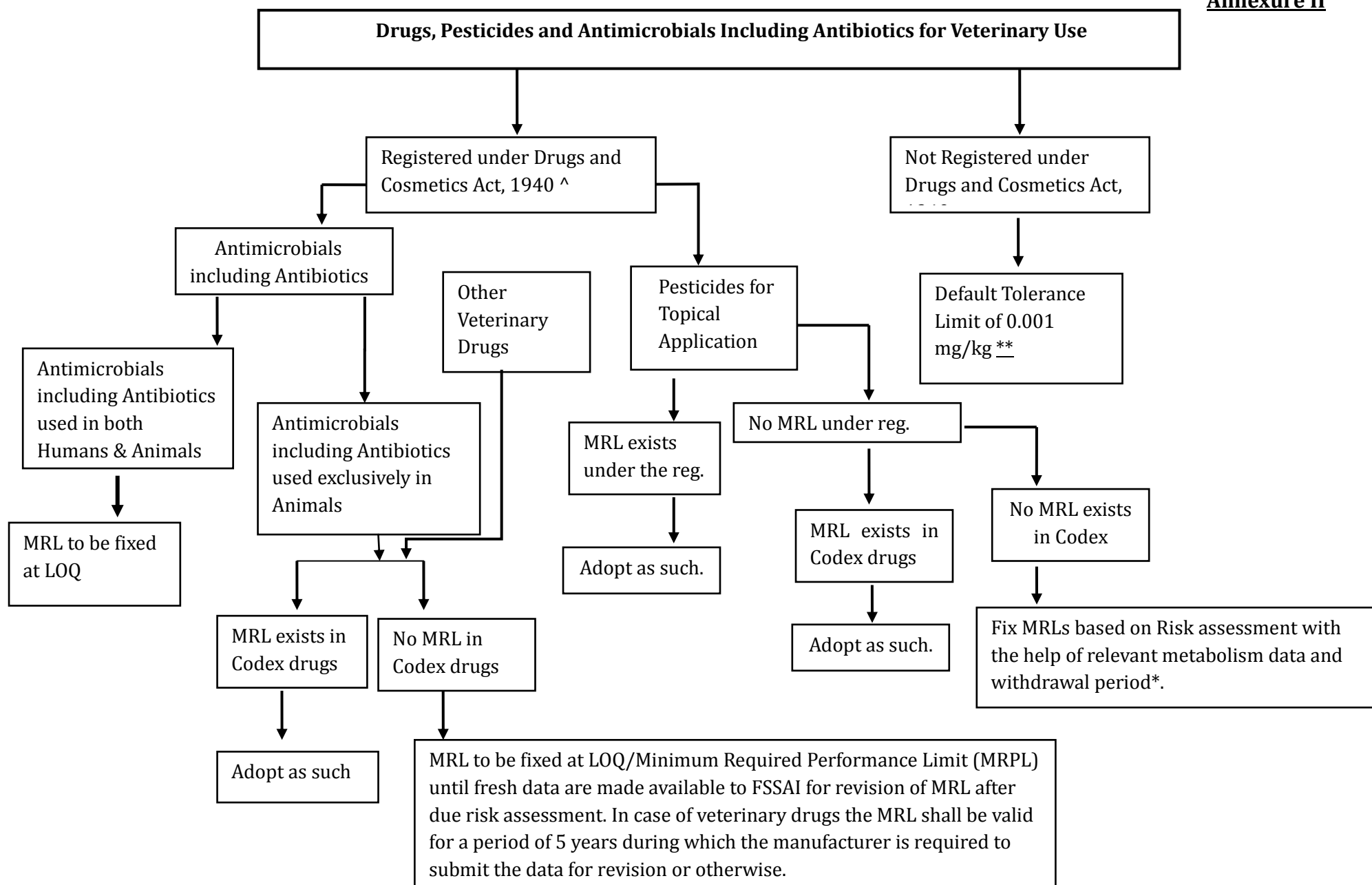


* Subject to review based on new data made available or after five years whichever is earlier

#Where the exposure calculated for risk assessment is not within the acceptable range the due process of refinement in risk assessment shall be made. In spite of this exercise, if the calculated exposure exceeds the acceptable range, then the CIB&RC shall be requested to delete appropriate label claims.

^ The MRL/tolerance limit wherever fixed on the basis of monitoring data a review of identified pesticide Vs. Crops shall be undertaken w.r.t extent and quantum of use including toxicological profile of pesticide. In case the use is nil to negligible in nature the same MRL/ Tolerance limit need to be continued otherwise appropriate efforts will be made to undertake the GAP study.

** Since this category includes import tolerance, in case of any objection from the exporting country, the relevant data shall be asked from the exporting country for review and, if appropriate, necessary upward revision of tolerance limit can be made. All these MRL/tolerance limit values are provisional for a period of five years and not fixed on the basis of actual data in the Indian context. They may be reviewed after five years or as and when the relevant scientific data is made available to FSSAI, whichever is earlier.



^ All these MRL/ Tolerance limit values are provisional for a period of five years and not fixed on the basis of actual data in the Indian context. They may be reviewed after 5 years or as and when the relevant scientific data is made available to FSSAI, whichever is earlier.

* to be considered in conjunction with its MRL as pesticide

** Since this category includes IMPORT TOLERANCE, in case of any objection from the exporting country, the relevant data shall be asked from the exporting country for review and, if appropriate, necessary upward revision of Tolerance limit can be made. All these MRL/ Tolerance limit values are provisional for a period of five years and not fixed on the basis of actual data in the Indian context. They may be reviewed after 5 years or as and when the relevant scientific data is made available to FSSAI, whichever is earlier.”