EXPORT INSPECTION COUNCIL, NEW DELHI

Instructions for testing of samples for tetracyclines

The tetracyclines should be tested separately, as a metabolite is formed from Chlortetracycline, Oxytetracycline and tetracycline. The MRLs/Level of action (i.e. concentration above which a result is deemed non-compliant) for testing samples under RMPs / NRCP as their marker residue are listed in table below. Wherever, MRLs/Level of action (i.e. concentration above which a result is deemed non-compliant) is not specified / not permitted by EU, it is taken as 10 µg/Kg by default. However, for any sample, if the result is reported below the default MRL (marked as "*"), the product from which sample is drawn will be considered as non-compliant.

Pharmacollogically active substances	Marker residue	Animal Species	MRL (* is default MRL)	Target Tissues / Matrix	Set No. in respective RMPs 2011-12
Chlortetracycline	Sum of Chlortetracycline and 4-epi-Chlortetracycline	Fish	100 µg/kg	Muscle & Skin	-
Oxytetracycline	Sum of Oxytetracycline and 4-epi-Oxytetracycline	Fish	100 µg/kg	Muscle & Skin	-
Tetracycline	Sum of Tetracycline and 4-epi-Tetracycline	Fish	100 µg/kg	Muscle & Skin	-
Chlortetracycline	Sum of Chlortetracycline and 4-epi-Chlortetracycline	Hen	200 µg/kg	Eggs	Set-3
Oxytetracycline	Sum of Oxytetracycline and 4-epi-Oxytetracycline	Hen	200 µg/kg	Eggs	Set-3
Tetracycline	Sum of Tetracycline and 4-epi-Tetracycline	Hen	200 µg/kg	Eggs	Set-3
Doxycycline	Doxycycline	Hen	10* µg/kg	Eggs	Set-2
Chlortetracycline	Sum of Chlortetracycline and 4-epi-Chlortetracycline	Honey	10* µg/kg	Honey	Set-1
Oxytetracycline	Sum of Oxytetracycline and 4-epi-Oxytetracycline	Honey	10* µg/kg	Honey	Set-1
Tetracycline	Sum of Tetracycline and 4-epi-Tetracycline	Honey	10* µg/kg	Honey	Set-1
Doxycycline	Doxycycline	Honey	10* µg/kg	Honey	Set-1
Chlortetracycline	Sum of Chlortetracycline and 4-epi-Chlortetracycline	Poultry	100 µg/kg	Muscle	Set-6
			300 µg/kg	Liver	Set-6
			600 µg/kg	Kidney	Set-6
Oxytetracycline	Sum of Oxytetracycline and 4-epi-Oxytetracycline	Poultry	100 µg/kg	Muscle	Set-6
			300 µg/kg	Liver	Set-6
			600 µg/kg	Kidney	Set-6
Tetracycline	Sum of Tetracycline and 4-epi-Tetracycline	Poultry	100 µg/kg	Muscle	Set-6
			300 µg/kg	Liver	Set-6
			600 µg/kg	Kidney	Set-6
Doxycycline	Doxycycline	Poultry	100 µg/kg	Muscle	Set-6
			300 µg/kg	Skin & fat	Set-6
			300 µg/kg	Liver	Set-6
			600 µg/kg	Kidney	Set-6
Chlortetracycline	Sum of Chlortetracycline and 4-epi-Chlortetracycline	Bovine	100 µg/kg	Milk	Set-1
Oxytetracycline	Sum of Oxytetracycline and 4-epi-Oxytetracycline	Bovine	100 µg/kg	Milk	Set-1
Tetracycline	Sum of Tetracycline and 4-epi-Tetracycline	Bovine	100 µg/kg	Milk	Set-1
Doxycycline	Doxycycline	Bovine	10* µg/kg	Milk	Set-3

Note:

1. Chlortetracycline: It should be tested for sum of Chlortetracycline and 4-epi-Chlortetracycline and also reported as sum of Chlortetracycline and 4-epi-Chlortetracycline
2. Oxytetracycline: It should be tested for sum of Oxytetracycline and 4-epi-Oxytetracycline and also reported as sum of Oxytetracycline and 4-epi-Oxytetracycline
3. Tetracycline: It should be tested for sum of Tetracycline and 4-epi-Tetracycline and also reported as sum of Tetracycline and 4-epi-Tetracycline
4. However, metabolite is not formed from Doxycycline. Hence, the samples may be tested and reported as Doxycycline, separately, as mentioned above.
5. Similarly, results for fishery products should also be reported as above, as per EU requirements:
6. For details please refer Commission Regulation (EU) No 37/2010 of 22 December 2009 on pharmacologically active substances and their classification regarding maximum residue limits in foodstuffs of animal origin.