REGULATORY PROGRAMME FOR CONTROL OF RESIDUES IN FOOD

COUNTRY	URUGUAY	**DATE**
YEAR OF PLAN IMPLEMENTATION	2021	
ANIMAL SPECIES / PRODUCT	**BOVINE**	
National PRODUCTION DATA - number of animals (referring to the previous year)	**2.006.548**	**EU EXPORT DATA in number of animals (referring to the previous year)**
PRODUCTION DATA for calculation of SAMPLE NUMBERS. (Number of animals (referring to previous year's production)	**2.006.548**	See Instruction sheet, note 4. If a **split system** is in plac no split system, and **all animals are eligible for export**
NUMBER OF SAMPLES	ACCORDING TO EU REQUIREMENTS	ACCORDING TO CODEX ALIMENTARIUS
MINIMUM	**8026**	
PLAN	**8278**	

GROUP OF SUBSTANCES TO BE MONITORED		**NUMBER OF SAMPLES**				**COMPOUND or MARKER RESIDUE**
		FARM	**SLAUGHTER**	**TOTAL**	**TOTAL**	
		MIN	MIN	MIN	**PLAN**	
A1	**STILBENES**	**418,0**	**418,0**	**836**	**836**	DES HEXOESTROL DIENOESTROL
A2	**THYROSTATS**	**418,0**	**418,0**	**836**	**418**	METILTIURACIL PROPILTIURACIL TIOURACIL FENILTIURACIL TAPAZOL
A3	**STEROIDS (WITH ANDROGENIC, ESTROGENIC OR PROGESTAGENIC ACTIVITY)**	**418,0**	**418,0**	**836**	**836**	NORTESTOSTERONE TRENBOLONE BOLDENONE METHYL TESTOSTERONE
A4	**RESORCYLIC ACID LACTONES**	**418,0**	**418,0**	**836**	**836**	

						ZERANOL
A5	BETA AGONISTS	418,0	418,0	836	836	ZILPATEROL CLENBUTEROL SALBUTAMOL RACTOPAMINE MABUTEROL CINBUTEROL TERBUTALINE BROMBUTEROL CLENPENTEROL TULOBUTEROL MAPENTEROL
A6	e.g. Chloramphenicol + Nitrofurans+ Nitroimidazoles	418,0	418,0	836	836	
	Chloramphenicol				300	CHLORAMPHENICOL
	Other A6 substances				300	NITROFURANS AND METABOLITES SEM AOZ AMOZ AHD
					236	2HYDROXYMETHYL 1METHYL 5NITROIMIDAZOLE DIMETRIDAZOLE HYDROXY IPRONIDAZOLE HYDROXY METRONIDAZOLE IPRONIDAZOLE METRONIDAZOLE RONIDAZOLE
GROUP OF SUBSTANCES TO BE MONITORED		NUMBER OF SAMPLES				COMPOUND or MARKER RESIDUE
		MIN	PLAN			
						ERYTHROMYCIN TYLOSIN SPIRAMICYN TILMICOSIN NEOMYCIN GENTAMICIN

				700	STREPTOMICYN
					SPECTINOMICYN
					PENICILLIN V
					PENICILLIN G
					CLOXACILLIN
					CEPHALEXIN
					CEFTIOFUR/ DESFUROYLCEFTIOFUR
					AMPICILLIN
					AMOXICILLIN
B1	**ANTIBACTERIAL SUBSTANCES**	**1204**	**1480**		OXYTETRACYCLINE
					CHLORTETRACYCLINE
					TETRACYCLINE
					DOXYCYCLINE
				550	CIPROFLOXACIN-ENROFLOXACIN
					NORFLOXACIN
					DANOFLOXACIN
					MARBOFLOXACIN
					FLORFENICOL/FLORFENICOL AMINE
					SULFADIAZINE
					SULFATHIAZOLE
					SULFAMERAZINE
					SULFAMETHAZINE
				200	SULFACHLORPYRIDAZINE
					SULFAMETHOXAZOLE
					SULFADIMETHOXINE
					SULFAQUINOXALINE
					SULFAMETHOXYPYRADIZINE
				30	OLAQUINDOX
					CARBADOX
B2a + B2b + B2c + B2d + B2e + B2f		**1505**	**1700**		
				70	RAFOXANIDE
					CLOSANTEL
					IVERMECTIN
					DORAMECTIN
				600	MOXIDECTIN
					ABAMECTIN
					EPRINOMECTIN
B2a	**ANTHELMINTICS**		**870**		
					ALBENDAZOLE / ALBENDAZOLE SULFOXIDE/ALBENDAZOLE 2 AMINOSULFONE
					ALBENDAZOLE 2 AMINOSULFONE
				200	FENBENDAZOLE / FENBENDAZOLE SULFONE

					MEBENDAZOLE
					OXFENDAZOLE
					TRICLABENDAZOLE/TRICLABENDAZOLE SULFOXIDE
					LEVAMISOLE
B2b	**ANTICOCCIDIALS**		**130**		
					MONENSIN
				100	SALINOMYCIN
					NARASIN
				30	LASALOCID
B2c	**CARBAMATES**		**30**		
					ALDICARB SULFONE
					ALDICARB SULFOXIDE
				30	ALDICARB
					3 HYDORXYCARBOFURAN
					CARBOFURAN
					CARBARYL
	PYRETHROIDS		**450**		
					CYPERMETHRIN
				450	PERMETHRIN
					DELTAMETHRIN
				450	FIPRONIL - FIPRONIL SULFONE
					FLUAZURON
B2d	**SEDATIVES**		**80**		XYLAZINE
					CHLORPROMAZINE
				80	AZAPERONE
					ACEPROMAZINE
					AZAPEROL
B2e	**NON STEROIDAL ANTI-INFLAMMATORY DRUGS**		**80**		
					METAMIZOLE (4 aminomethyl antipyrine)
					FLUNIXIN
				80	PHENYLBUTAZONE/OXYPHENBUTAZONE
					DICLOFENAC
					MELOXICAM
B2f	**Other pharmacologically active substances**		**60**		
					DEXAMETHASONE
					BETAMETHASONE
				30	PREDNISOLONE
					METHYLPREDNISOLONE
					FLUMETHASONE

				30	AMITRAZ

GROUP OF SUBSTANCES TO BE MONITORED		NUMBER OF SAMPLES			COMPOUND or MARKER RESIDUE
		MIN	PLAN		
B3a + B3b + B3c		**301**	**500**		
B3a	**ORGANOCHLORINE COMPOUNDS INCLUDING PCBS**				HCB
					HCH α
					HCH β
					LINDANE
					ALDRIN
					DDT AND METABOLITES
					DIELDRIN
					ENDRIN
					HEPTACHLOR
					HEPTACHLOR EPOXIDE
					ENDOSULFAN
					ENDOSULFAN SULFATE
					CHLORDANE cis-trans
					PCB 28
					PCB 52
					PCB 101
					PCB 118
					PCB 138
					PCB 153
					PCB 180
B3b	**ORGANOPHOSPHORUS COMPOUNDS**		**200**		
					FIPRONIL - FIPRONIL SULFONE
					FLUAZURON
					ETHION
					DIAZINON
					CHLORPYRIFOS
					METHYL PARATHION
					PARATHION (ETHYL)
					PYRIMIPHOS METIL
					CHLORPYRIFOS METHYL
					ACEPHATE
					AZINPHOS METHYL
					DIMETHOATE
					MALATHION
					MALAOXON
					FENTHION
					PHOSMET

					COUMAPHOS
					TRICHLORFON
					NAPHTALOPHOS
B3c	**CHEMICAL ELEMENTS**		**300**		
				200	LEAD
					CADMIUM
				100	ARSENIC
					MERCURY

(*1) The level of action considers the MRL corrected by the uncertainty value associated with the analytical methodology
(*2) The levels of detection are under revision. A new analytical methodology based on GC MSMS is under development

K.L.M.: KIDNEY, LIVER, MUSCLE

Check calculation of total of minimums

8026

The minimum number of animals to be checked each year for all kinds of residues and substances must at least equal 0,4 % of the bov
Group A: 0,25 % divided as follows:
- one half of the samples are to be taken from live animals on the holding; (by derogation, 25 % of samples analysed for the research o
- one half of the samples are to be taken at the slaughterhouse.
• Each sub-group in Group A must be checked each year using a minimum of 5 % of the total number of samples to be collected for Gr
• The balance must be allocated according to the experience and background information of the country.
Group B: 0,15 % divided as follows:
30 % of the samples must be checked for Group B 1 substances.
30 % of the samples must be checked for Group B 2 substances.
10 % of the samples must be checked for Group B 3 substances.
The balance must be allocated according to the situation of the country.

In order to facilitate this breakdown and ensure that the correct number of samples are tested, the spreadsheet has made the following way: - Of the samples to be tested for in Groups A1 - A6, one sixth of the total Group A samples are allocated to e B, 40% of these have been allocated to Group B1, 50% to Group B2 and 10% to Group B3.

mar-21

ce for exports to the EU, **actual export data** may be entered in this cell. If there is
to the EU, national production data must be entered in this cell

OTHER

MATRIX ANALYSED	SCREENING METHOD	CONFIRMATORY METHOD	SCREEN.METH. DETECTION LIMIT [µg/Kg]	CONFIR.METH. DETECTION LIMIT [µg/Kg]	LEVEL OF ACTION (i.e. conceentration above which a result is deemed non-compliant) [µg/Kg] (*1)
URINE		GC/ MS		0,57 **(*2)**	0,57 **(*2)**
URINE		GC/ MS		0,58 **(*2)**	0,58 **(*2)**
URINE		GC/ MS		0,65 **(*2)**	0,65 **(*2)**
THYROID		HPLC/MS-MS		2,3	10
THYROID		HPLC/MS-MS		1,3	10
THYROID		HPLC/MS-MS		2,3	10
THYROID		HPLC/MS-MS		2,0	10
THYROID		HPLC/MS-MS		1	10
URINE		GC/MS - HPLC/MSMS		0,25	0,25
URINE		HPLC/MSMS		0,30	0,30
URINE		HPLC/MSMS		0,30	0,30
URINE		HPLC/MSMS		0,50	0,50

URINE		GC/MS		0,84 (*2)	0,84 (*2)
URINE		HPLC/MS-MS		0,37	0,37
URINE		HPLC/MS-MS		0,01	0,01
URINE		HPLC/MS-MS		0,01	0,01
URINE		HPLC/MS-MS		0,02	0,02
URINE		HPLC/MS-MS		0,01	0,01
URINE		HPLC/MS-MS		0,02	0,02
URINE		HPLC/MS-MS		0,06	0,06
URINE		HPLC/MS-MS		0,01	0,01
URINE		HPLC/MS-MS		0,02	0,02
URINE		HPLC/MS-MS		0,01	0,01
URINE		HPLC/MS-MS		0,01	0,01

MUSCLE	ELISA	HPLC/MS-MS	0,07	0,05	0,05
MUSCLE		HPLC/MS-MS			
MUSCLE		HPLC/MS-MS		0,14	0,14
MUSCLE		HPLC/MS-MS		0,11	0,11
MUSCLE		HPLC/MS-MS		0,05	0,05
MUSCLE		HPLC/MS-MS		0,43	0,43
MUSCLE		HPLC/MS-MS		0,23	0,23
MUSCLE		HPLC/MS-MS		0,17	0,17
MUSCLE		HPLC/MS-MS		0,51	0,51
MUSCLE		HPLC/MS-MS		0,34	0,34
MUSCLE		HPLC/MS-MS		0,39	0,39
MUSCLE		HPLC/MS-MS		0,33	0,33
MUSCLE		HPLC/MS-MS		0,23	0,23

MATRIX ANALYSED	**SCREENING METHOD**	**CONFIRMATORY METHOD**	**SCREEN.METH. DETECTION LIMIT [µg/Kg]**	**CONFIR.METH. DETECTION LIMIT [µg/Kg]**	**LEVEL OF ACTION (i.e. conceentration above which a result is deemed non-compliant) [µg/Kg] (*1)**
K. L. M.		HPLC/MS-MS		10	100 (Kidney)
K. L. M.		HPLC/MS-MS		2	100 (Kidney)
K. L. M.		HPLC/MS-MS		10	300 (Kidney)
K. L. M.		HPLC/MS-MS		20	300 (Kidney)
K. L. M.		HPLC/MS-MS		400	7200 (Kidney)
K. L. M.		HPLC/MS-MS		40	750 (Kidney)

K. L. M.		HPLC/MS-MS		50	1000 (Kidney)
K. L. M.		HPLC/MS-MS		40	4000 (Kidney)
K. L. M.		HPLC/MS-MS		5	50 (Kidney)
K. L. M.		HPLC/MS-MS		8	50 (Kidney)
K. L. M.		HPLC/MS-MS		5	300 (Kidney)
K. L. M.		HPLC/MS-MS		10	1000 (Kidney)
K. L. M.		Under development		---	400 (Kidney)
K. L. M.		HPLC/MS-MS		5	50 (Kidney)
K. L. M.		HPLC/MS-MS		5	50 (Kidney)
MUSCLE	ELISA (BIOCHIP)	HPLC/MS-MS	50	10	100
MUSCLE	ELISA (BIOCHIP)	HPLC/MS-MS	50	10	100
MUSCLE	ELISA (BIOCHIP)	HPLC/MS-MS	50	10	100
MUSCLE	ELISA (BIOCHIP)	HPLC/MS-MS	50	20	100
MUSCLE	ELISA (BIOCHIP)	HPLC/MS-MS	50	10	100
MUSCLE	ELISA (BIOCHIP)	HPLC/MS-MS	5	5	5
MUSCLE	ELISA (BIOCHIP)	HPLC/MS-MS	100	10	200
MUSCLE	ELISA (BIOCHIP)	HPLC/MS-MS	75	10	150
MUSCLE	ELISA (BIOCHIP)	HPLC/MS-MS	Under development	3,7	200
LIVER	ELISA (BIOCHIP)	HPLC/MS-MS	40	10	100
LIVER	ELISA (BIOCHIP)	HPLC/MS-MS	40	10	100
LIVER	ELISA (BIOCHIP)	HPLC/MS-MS	40	10	100
LIVER	ELISA (BIOCHIP)	HPLC/MS-MS	40	10	100
LIVER	ELISA (BIOCHIP)	HPLC/MS-MS	40	10	100
LIVER	ELISA (BIOCHIP)	HPLC/MS-MS	40	10	100
LIVER	ELISA (BIOCHIP)	HPLC/MS-MS	40	10	100
LIVER	ELISA (BIOCHIP)	HPLC/MS-MS	40	10	100
LIVER	ELISA (BIOCHIP)	HPLC/MS-MS	40	10	100
MUSCLE		HPLC/MS-MS		0,25	0,25
MUSCLE		HPLC/MS-MS		0,25	0,25
MUSCLE		HPLC/FLD		15	30
MUSCLE		HPLC/FLD		23	1000
LIVER		HPLC/FLD		8	100
LIVER		HPLC/FLD		6	100
LIVER		HPLC/FLD		6	100
LIVER		HPLC/FLD		8	20
LIVER		HPLC/FLD		8	1500
LIVER	ELISA (BIOCHIP)	HPLC/MSMS	50	15	1000
LIVER	ELISA (BIOCHIP)	HPLC/MSMS	10	2	200
LIVER	ELISA (BIOCHIP)	HPLC/MSMS	50	5	500

LIVER	ELISA (BIOCHIP)	HPLC/MSMS	50	2	2
LIVER	ELISA (BIOCHIP)	HPLC/MSMS	50	2	500
LIVER	ELISA (BIOCHIP)	HPLC/MSMS	100	10	250
LIVER	ELISA (BIOCHIP)	HPLC/MSMS	75	10	100
LIVER		HPLC/UV		2	50
LIVER		HPLC/UV		3	6
LIVER		HPLC/UV		2	7
LIVER		HPLC/FL		20	100
MUSCLE		HPLC/FLD		1,19	10
MUSCLE		HPLC/FLD		0,8	10
MUSCLE		HPLC/FLD		1,1	10
MUSCLE		HPLC/FLD		1,2	10
MUSCLE		HPLC/FLD		1,4	10
MUSCLE		HPLC/FLD		1,0	50
FAT		GC/ECD		15	200
FAT		GC/ECD		10	100
FAT		GC/ECD		20	50
FAT		HPLC/MS-MS		5	60
FAT		HPLC/MS-MS		500	7000
KIDNEY		HPLC/DAD		4,9	10
KIDNEY		HPLC/DAD		3,4	3,4
KIDNEY		HPLC/DAD		3,8	3,8
KIDNEY		HPLC/DAD		6,6	10
KIDNEY		HPLC/DAD		3,5	10
MUSCLE		HPLC/MSMS		5,5	100
MUSCLE		HPLC/MSMS		1,5	20
MUSCLE		HPLC/MSMS		0,43	0,43
MUSCLE		HPLC/MSMS		0,47	5
MUSCLE		HPLC/MSMS		1,8	20
LIVER		HPLC-MS/MS		0,12	2
LIVER		HPLC-MS/MS		0,11	2
LIVER		HPLC-MS/MS		0,28	10
LIVER		HPLC-MS/MS		0,38	10
LIVER		HPLC-MS/MS		0,05	1

FAT		GC/ECD		5,8	100

MATRIX ANALYSED	SCREENING METHOD	CONFIRMATORY METHOD	SCREEN.METH. DETECTION LIMIT [µg/Kg]	CONFIR.METH. DETECTION LIMIT [µg/Kg]	LEVEL OF ACTION (i.e. conceentration above which a result is deemed non-compliant) [µg/Kg] (*1)
FAT		GC/ECD		10	25
FAT		GC/ECD		10	25
FAT		GC/ECD		10	25
FAT		GC/ECD		10	20
FAT		GC/ECD		5	200
FAT		GC/ECD		10	1000
FAT		GC/ECD		10	200
FAT		GC/ECD		10	50
FAT		GC/ECD		10	200
FAT		GC/ECD		10	200
FAT		GC/ECD		10	50
FAT		GC/ECD		10	50
FAT		GC/ECD		10	50
FAT		GC/ECD		50	200
FAT		GC/ECD		50	200
FAT		GC/ECD		50	200
FAT		GC/ECD		50	200
FAT		GC/ECD		50	200
FAT		GC/ECD		50	200
FAT		HPLC/MS-MS		5	60
FAT		HPLC/MS-MS		500	7000
FAT		HPLC/MS-MS		0,5	10
FAT		HPLC/MS-MS		5	500
FAT		HPLC/MS-MS		5	10
FAT		HPLC/MS-MS		15	15
FAT		HPLC/MS-MS		15	50
FAT		HPLC/MS-MS		5	10
FAT		HPLC/MS-MS		15	50
FAT		HPLC/MS-MS		10	20
FAT		HPLC/MS-MS		10	10
FAT		HPLC/MS-MS		5	10
FAT		HPLC/MS-MS		2	20
FAT		HPLC/MS-MS		2	20
FAT		HPLC/MS-MS		10	50
FAT		HPLC/MS-MS		15	100

FAT		HPLC/MS-MS		2	10
FAT		HPLC/MS-MS		5	10
FAT		To be developed in 2021		---	10
K. L. M.		AAS		50	500 (Kidney)
K. L. M.		AAS		100	1000 (Kidney)
K. L. M.		AAS		10	2000 (Liver)
K. L. M.		AAS		160	500 (Liver)

vines slaughtered the previous year, with the following breakdown:

f Group A 5 substances can be taken from appropriate material (feedingstuffs, drinking water, etc.))

oup A.

following calculations which distributes the balance of samples between each of the (sub) groups in the ach subgroup with half being taken on-farm and half at slaughterhouse. - Of the samples to be tested for Grou

LABORATORY NAME
DILAVE
XENOBIOTICOS
DILAVE
DILAVE

DILAVE

DILAVE

DILAVE

DILAVE

XENOBIOTICOS

LABORATORY NAME

DILAVE
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XENOBOTICOS

LABORATORY NAME

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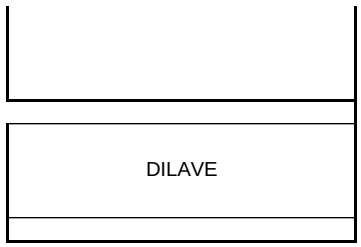
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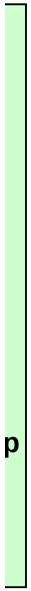
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