

**Table S2. The mass spectrometry parameters of 244 chemical contaminants**

Classification	Compound Name	Prec Ion	Prod Ion	Frag (V)	CE (V)	Cell Acc (V)	Ret Time (min)	Ret Window	Polarity
$\beta$ -Lactam antibiotics	Ampicillin	350.1	160	110	6	3	10.37	1	Positive
			106		12				
			364		8				
	Cefapirin	424.1	291.9	132	12	3	3.75	1	Positive
			151.9		28				
			324		8				
	Cefotaxime	456.1	125	132	60	4	5.16	1	Positive
			395.9		4				
			241		16				
	Ceftiofur	524	210	141	20	4	9.09	1	Positive
			126		40				
			199		8				
	Nafcillin	415.1	171	110	35	3	16.5	1	Positive
	3-Methoxytyramine (3-MT)	168.1	119	60	15	3	4.33	0.9	Positive
			91		24				
	Bambuterol	368.1	312	120	8	3	12.69	1	Positive
			294		20				
	Bromchlorbuterol	321	247	110	10	3	11.4	1	Positive
			168		15				
	Clenbuterol	277.1	259.1	100	5	3	10.79	1	Positive
			203		12				

β-Adrenergic receptors	Clenbuterol hydroxymethyl	293	275 203	110	10 20	3	9.07	0.8	Positive
	Clencyclohexerol	319.1	203.1 168.1	110	15 35	3	8.32	0.91	Positive
	Clenhexerol	305.1	203 132	110	20 35	3	13.79	0.8	Positive
	Clenisopenterol	291.1	273 188	110	10 20	3	13.25	0.5	Positive
	Clenpenterol	291	273 203	105	8 15	3	12.45	0.5	Positive
	Clenproperol	263	245 203	100	10 15	3	9.23	0.91	Positive
	Clorprenaline	214.1	196 153.9	112	8 12	4	10.33	1.2	Positive
	Fenoterol	304.1	286.2 135.2	120	5 15	3	7.05	0.91	Positive
	Formoterol	345	149 121	120	15 20	3	11.1	1	Positive
	Isoxsuprine	302.1	284.1 107	80	10 30	3	12.3	1	Positive
	Labetalol	329	311 207	120	10 15	3	13.15	1	Positive
	Metaproterenol	212.1	194.1 152	70	6 14	3	3.9	1.2	Positive

	Phenylethanolamine A	345.2	327.1 150.1	100	9 20	3	13.9	0.8	Positive
	Procaterol	291.1	273.1 231.1	100	6 18	3	6.79	1	Positive
	Ractopamine	302	164.1 121	110	10 22	3	9.65	0.96	Positive
	Ritodrine	288.1	270.1 121	100	6 18	3	7.48	0.91	Positive
	Salbutamol	240	222.1 148	100	5 13	3	5.28	0.91	Positive
	Salmeterol	416.1	398.2 380.2	130	10 18	3	15.95	1	Positive
	Sotalol	273.1	255.1 213.1	150	10 20	3	5.07	0.89	Positive
	Terbutaline	226.1	152.1 107	90	10 25	3	5.08	1.2	Positive
	Tulobuterol	228.1	172 154	100	5 13	3	11.87	1	Positive
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Macrolide antibiotics	Clindamycin	425.2	377 126	120	20 30	3	14.08	1	Positive
	Eprinomectin	936.4	490.3 352.2	200	59 65	3	19.63	1	Positive
	Oleandomycin	688.3	544.3 158.2	170	15 25	4	14.501	1.2	Positive

Sineptina	786.5	229.3 109	180	30 45	3	15.82	1	Positive
Tilmicosin	869.6	696.4 174	250	45 50	3	13.82	1	Positive
Tylosin	916.5	174 101	240	42 54	3	15.24	1	Positive
Sulfabenzamide	277.1	156 108	80	10 25	3	11.72	1	Positive
Sulfachloropyridazine	285	156 108	100	10 25	3	10.04	1	Positive
Sulfadiazine	251.1	156 108	100	10 22	3	6.14	0.99	Positive
Sulfadimethoxine	311	156 108	130	20 26	3	12.98	1	Positive
Sulfadimidine	279.1	186.1 156.1	120	15 16	3	9.03	0.8	Positive
Sulfadoxine	311.1	156 92	120	15 30	3	10.91	1	Positive
Sulfamerazine	265.1	172 156	110	12 15	3	7.65	0.99	Positive
Sulfameter	281	156 108	110	15 25	3	9.39	0.6	Positive
Sulfamethizole	271	156 108	90	10 22	3	8.8	1	Positive

Sulfonamides	Sulfamethoxazole	254.1	156 108	100	10 25	3	10.26	1	Positive
	Sulfamethoxypyridazine	281.1	156 108	105	15 25	3	8.67	0.6	Positive
	Sulfamonomethoxine	281.11	156.1 108.1	100	15 26	3	10.45	0.6	Positive
	Sulfamoxol	268	156 113	110	13 16	3	10.95	0.8	Positive
	Sulfanilamide	173	156 92	70	5 25	3	3.1	1.2	Positive
	Sulfanitran	336.07	293.9 156	100	8 8	3	14.84	1	Positive
	Sulfaphenazole	315	222 158	130	15 30	3	12.39	1	Positive
	Sulfapyrazole	329.1	172 145	120	30 50	3	13.27	1	Positive
	Sulfapyridine	250.1	184 156	110	15 10	3	7.11	0.99	Positive
	Sulfaquinoxaline	301.1	156 108	110	11 22	3	13.33	1	Positive
	Sulfathiazole	256	156 108	100	10 21	3	6.67	0.99	Positive
	Sulfisomidine	279	186 124	100	15 20	3	6.23	1	Positive

	Sulphacetamide	215.1	156.1 92	70	5 20	3	5.21	1	Positive
Psychiatric drugs	Carbamazepine	237	194 179	110	15 35	3	15.49	1	Positive
	Diphenhydramine	256.2	167.1 165.1	80	4 44	3	14.1	0.8	Positive
	Doxepin	280.2	107.1 77.1	118	20 60	3	14.31	1	Positive
	Fluoxetine	310.1	148.1 44	93	2 15	3	15.6	0.8	Positive
	Imipramine	281.2	86.1 58.2	118	12 44	3	15.28	1	Positive
	Sulpiride	342.1	214 112.1	150	40 20	3	5.21	0.84	Positive
	Zolpidem	308.2	236.1 235.1	176	24 36	3	12.2	1	Positive
Polyether antibiotics	Maduramycin	934.4	647.3 629.4	179	16 20	3	20.3	1.4	Positive
	Nigericin	742.5	675.3 657.2	170	25 25	3	20.49	1.4	Positive
	Econazole	381	125 69	150	40 20	3	16.63	0.8	Positive
	Fluconazole	307.1	238 220	120	10 20	3	12.07	0.8	Positive

Antifungal drugs	Griseofulvin	353.1	215 165.1	150	20 20	3	15.86	0.8	Positive
	Ketoconazole	531.2	489.1 82.1	150	40 40	3	15.34	0.8	Positive
	Miconazole	415	159 69	150	40 20	3	17.19	0.8	Positive
	Naftifine	288.2	141.1 117.1	150	20 20	3	15.1	0.8	Positive
Antihistamine drugs	Brompheniramine	319.1	274 167.1	150	20 40	3	13.34	0.8	Positive
	Chlorpheniramine	275.1	230.1 167.1	150	20 40	3	12.81	0.8	Positive
	Chlorpromazine	319.2	246 86	120	20 15	3	15.94	0.8	Positive
	Cyproheptadine	288.3	191 96	160	28 24	3	15.21	0.8	Positive
	Desloratadine	311.1	259.1 258.1	150	20 40	3	13.25	0.8	Positive
	Fluphenazine	438.1	171.1 143	120	26 30	3	16.53	0.8	Positive
	Hydroxyzine	375.2	201 166.1	150	20 40	3	15.43	0.8	Positive
	Loratadine	383.2	337.1 267.1	150	20 40	3	17.3	1	Positive

	Promethazine	285.1	86.1 71.1	118	16 48	3	14.86	0.8	Positive
	Terfenadine	472.3	454.3 436.3	150	20 20	3	16.63	0.8	Positive
Malachite Green	Invisible malachite green (LMG)	331.2	239.1 223.1	150	30 55	3	16.7	2	Positive
Lincosamide antibiotics	Lincomycin	407.2	359 126	150	15 30	3	8.08	1	Positive
	2-Methyl-4(5)-nitroimidazole	128.11	82 42	90	16 36	3	8.35	0.91	Positive
	2-Methyl-5-nitroimidazole	128.1	82 42	90	16 36	3	4.85	1.2	Positive
	4-Nitroimidazole	114.1	97 68	90	15 25	3	3.46	0.95	Positive
	5-Hydroxy-thiabendazole	218	176 148	160	17 25	3	14	1	Positive
	Febantel	447.1	415.1 383.1	128	10 16	3	17.76	1.2	Positive
	Levamisole	205	178 91	100	20 30	3	6.95	0.92	Positive
	Metronidazole	172.1	128 82	90	12 26	3	5.86	1.1	Positive
	Hydroxy metronidazole (MNZOH)	188.1	126 123	90	15 10	3	4.51	1.2	Positive



Imidazoles & Benzimidazole	Nimorazole	227.1	114.1 100.1	110	10 20	3	2.96	1.2	Positive
	Oxfendazole	316.1	191 159	150	17 35	3	14.09	1	Positive
	Oxibendazole	250.1	218.1 176	130	14 27	3	13.99	1	Positive
	Ronidazole	201.1	140 55	90	4 18	3	6.24	1.1	Positive
	Secnidazole	186.1	128.1 59	90	15 20	3	8.35	0.91	Positive
	Tinidazole	248	121 93	100	15 20	3	7.78	0.84	Positive
	Triclabendazole	359	343.9 274	176	24 40	3	18.58	1	Positive
	2-Aminobenzimidazole	134.1	92 65.1	100	25 35	3	6.07	1	Positive
	5-Hydroxymebendazole	298.15	266.1 160	140	19 36	3	13.03	0.9	Positive
	5-Nitrobenzimidazole	164.1	118 91	90	22 40	3	8.1	1	Positive
	Albendazole	266.1	234.1 191	130	16 34	3	15.65	1	Positive
	Albendazole sulfone	298.1	266.1 159	160	16 39	3	13.03	0.9	Positive

Mebendazole-amine (HMEB)	238	105 77	200	25 40	3	12.67	1	Positive
Benzimidazole	119.1	92 65.1	90	30 35	3	4.53	1	Positive
Cambendazole	303.1	261 217.1	120	16 32	3	13.97	1	Positive
Dimetridazole	142.1	96 81	90	14 30	3	6.42	1	Positive
Fenbendazole	300.1	268 159	140	18 36	3	16.72	1	Positive
Flubendazole	314.1	282.1 123	140	18 37	3	15.88	1	Positive
2-Hydroxymethyl-1-methyl-5-nitroimidazole (HMMNI)	158.1	140 55	90	10 18	3	5.55	1.2	Positive
Ipronidazole	170.1	124 109	90	16 26	3	12.07	1	Positive
Hydroxy-ipronidazole	186.1	168 122	90	10 20	3	10.53	1	Positive
Mebendazole	296.1	264.1 105	140	18 35	3	15.5	1	Positive
Thiabendazole	202	175 131	150	25 35	3	9.23	0.97	Positive
Virginiamycin M1	526.3	508.4 355	130	15 20	3	16.32	1	Positive

Other antibiotics	Ivermectin	897.4	753.3 329.2	200	46 60	3	20.4	1	Positive
	Valnemulin	567.4	263 164	144	16 28	4	16.2	1.2	Positive
	Florfenicol	356	336 185.1	141	0 12	3	10.76	1.2	Negative
	Cinoxacin	263	217 189	100	20 30	3	12.92	1.29	Positive
	Ciprofloxacin	332.1	314.1 231	135	20 42	3	9.77	0.97	Positive
	Danofloxacin	358.1	340.1 255	140	25 46	3	10.05	1	Positive
	Difloxacin	400	382.1 356.1	140	20 20	3	10.54	1.04	Positive
	Enoxacin	321	303.2 232.1	125	20 36	3	9.23	0.91	Positive
	Enrofloxacin	360	342.1 316.2	120	20 20	3	9.97	0.99	Positive
	Fleroxacin	370.1	326 269	130	15 25	3	8.65	0.92	Positive
	Flumequine	262	202 126	100	30 50	3	15.19	1.52	Positive
	Gatifloxacin	376.2	261 245	130	40 60	3	11.34	1.13	Positive

Quinolones	Gemifloxacin	390.1	372 313	135	15 30	3	13.11	1	Positive
	Lomefloxacin	352.1	308.1 265.1	130	10 20	3	10.27	1.02	Positive
	Marbofloxacin	363	345.1 320.1	120	20 10	3	8.43	0.92	Positive
	Moxifloxacin	402.2	364.2 260.1	150	30 40	3	12.39	1.23	Positive
	Nadifloxacin	361.1	283 257	140	45 45	3	15.71	1.57	Positive
	Nalidixic acid	233	215 187	100	10 20	3	14.93	1.49	Positive
	Norfloxacin	320	302.1 276.1	130	20 15	3	9.45	0.94	Positive
	Ofloxacin	362	318.1 261.1	130	15 26	3	9.11	0.92	Positive
	Orbifloxacin	396.1	352.1 295.1	130	15 22	3	10.51	1.04	Positive
	Oxolinic acid	262.1	216 160	90	30 40	3	13.51	1.35	Positive
	Pefloxacin	334.2	290.1 233.1	174	16 28	4	9.32	1.2	Positive
	Sarafloxacin	386.1	368.1 342.1	130	20 15	3	10.91	10.8	Postive

Tetracyclines	Pipemidic acid	304	286	17	3	8.1	0.92	Positive
			215	35				
			286	17				
	Sparfloxacin	393.1	215	35	3	12.02	1.19	Positive
			349	20				
			292	36				
	Tosufloxacin	405.1	314	40	3	12.71	1.26	Positive
			263	40				
	Demeclocycline	465.1	448	15	3	10.87	1.08	Positive
			430	22				
	Oxytetracycline (OTC)	461.15	443.1	8	3	9.75	1.09	Positive
			426	16				
Tetracyclines	Flunixin	297.1	279	20	3	17.63	1	Positive
			264	30				
			209	7				
	Ketoprofen	255.2	105	15	3	16.52	1	Positive
			105	28				
			77	56				
	Ketotifen	310.1	96.1	20	3	12.86	1	Positive
			82.1	40				
	Lornoxicam	372	121	20	3	15.61	1	Positive
			95.1	20				
	Melitracene	292.2	247.1	20	3	15.88	1	Positive
			217.1	40				

NSAID (Non-steroidal anti-inflammatory drug)	Meloxicam	352	140.9 115	123	16 16	4	16.53	1.2	Positive
	Nabumetone	229	171 128	120	15 20	3	17.23	1	Positive
	Naproxen	231	185 141	120	10 40	3	16.81	1	Positive
	Oxaprozin	294.1	276.1 103.1	150	20 40	3	17.67	1	Positive
	Piroxicam	332.13	95 78	132	20 76	4	15.48	1.2	Positive
	Sulindac	357.1	340.1 248.1	150	20 40	4	16.48	1.2	Positive
	Tenoxicam	338	233.1 121 78	132	24 72	4	13.2	1.2	Positive
	Tolfenamic acid	262.1	244 180	100	10 40	3	18.98	1	Positive
	Antipyrine	189	147 77	90	20 30	3	10.8	1	Positive
	4-Acetamido antipyrine	246.1	227.9 104 83	112	12 20 40	4	8.99	1.2	Positive
Antipyretic analgesics	4-Formylamino antipyrine	232.1	104 83	117	20 20	4	8.73	1.2	Positive

	Paracetamol	152.1	110 65	110	13 32	3	6.06	1	Positive
	Phenacetin	180	138 110	110	11 19	3	13.54	0.8	Positive
Antiviral drugs	Amantadine	152.1	135	112	18	4	10.49	1.2	Positive
			93.1		32				
			77.1		50				
Anticoccidial drugs	Monensin	688.5	635.4	150	12	3	20.04	1.4	Positive
			461.3		23				
			334.1		16				
	Nequinat	366.2	200.9	169	32	4	18.42	1.2	Positive
			145		56				
			91		44				
	Robenidine	334.06	155	156	16	4	16.38	1.2	Positive
			111		56				
	Toltrazuril	424.12	424.1	108	0	4	15.79	1	Negative
			42.2		16				
			457		0				
	Toltrazuril sulfone	457	456	149	0	4	15.1	1	Negative
			42.2		50				
	Toltrazuril sulfoxide	440	371	112	12	4	14.42	1	Negative
			42.1		16				
			167		15				
	Pirbuterol acetate	241.15	149	100	25	3	4.5	1	Positive

Other veterinary drugs	Penbutolol	292.2	236 133	122	12 24	4	15.87	1.2	Positive
	Propranolol	260	116 56	95	16 28	4	9.1	1	Positive
	Trimethoprim	291.1	230.1 123	120	25 25	3	8.45	0.92	Positive
	2-Mercaptobenzimidazole	151	93 65	110	15 20	3	9.82	1	Positive
	Azaperol	330	149 121	115	25 30	3	8.7	1	Positive
	Azaperone	328	165 121	130	7 21	3	10.05	0.99	Positive
	Carazolol	299.2	222 116	110	15 20	3	12.57	1.2	Positive
	Carbadox	263	231 90	100	5 30	3	11.01	1	Positive
	Clopidol	192	101 87	90	30 35	3	8.41	1	Positive
	Dapsone	249.1	156 92	130	9 23	3	8.47	0.97	Positive
	Desoxycarbadox	231	199 143	90	10 20	3	14.48	1	Positive
	Halofuginone	414	120.1 100.1	150	20 32	3	13.92	1	Positive



Haloperidol	376.1	165.1 123	150	20 40	3	14.54	1	Positive
Indoprofen	282.13	236.1 77.1	174	20 76	4	16.04	1.2	Positive
Mefenamic acid	242.1	224.1 209.1	108	8 28	4	18.73	1.2	Positive
N-Acetyl dapson	291.1	180.1 197.9		44 12				
		155.8	154	16	4	11.08	1.2	Positive
Phenylbutazone	309	160 120	100	20 20	3	17.5	1	Positive
Propionylpromazine	341.2	86 58	125	20 30	3	15.69	1	Positive
Propyl thiouracil	171	154 112	110	14 17	3	9.43	0.98	Positive
		119		24				
Tolmetin	258.1	91	132	44	4	16.51	1.2	Positive
		65.1		80				
Xylazine	221.1	164 90	150	24 21	3	10.5	1	Positive
Chloroprocaine	271.1	154 100	110	25 15	3	7.54	0.8	Positive
Cinchocaine	344.2	271.1 215.1	150	20 40	3	15.62	0.8	Positive

CNS drugs (Central nervous system drugs)	Lidocaine	235.2	86.1 58.2	118	16 36	3	9.4	0.8	Positive
	Procainamide	236.2	163.1 120	150	20 40	3	4	1	Positive
	Procaine	237.2	120 100.1	150	20 20	3	5.55	0.8	Positive
	Tetracaine	265.2	176.1 72.1	150	20 20	3	13.81	0.8	Positive
	Alclomethasone dipropionate	521.2	301 279	130	10 10	3	17.76	0.6	Positive
	Amcinonide	503.2	338.9 321	110	10 14	3	18.25	1	Positive
	Beclomethasone	409.2	391.1 146.9	110	6 30	3	16.38	1	Positive
	Beclomethasone dipropionate	521.2	503 319	115	4 10	3	18.51	0.6	Positive
Betamethasone valerate	477.3	354.9 278.8	110	4 14	3	18.1	1	Positive	
Betamethasone dipropionate	505.2	318.9 278.9	110	10 12	3	18.3	1	Positive	
Budesonide	431.2	413.1 146.9	110	6 30	3	17.67	1	Positive	
Chlormadinone acetate	405.2	345.2 309.2	108	8 12	3	18.03	1	Positive	

Steroid hormones	Clobetasol 17-propionate	467.2	372.9 354.9	110	6 8	3	17.86	1	Positive
	Clobetasone 17-butyrate	479.2	342.8 278.9	150	12 14	3	18.23	1	Positive
	Cortisone	361.2	163.1 121	150	20 30	3	15.28	0.5	Positive
	Deflazacort	442.2	141.9 123.9	180	36 50	3	16.95	1	Positive
	Dexamethasone	393.1	355 146.8	125	4 25	3	16.27	0.6	Positive
	Diflorasone diacetate	495.2	316.8 278.8	120	8 10	3	17.26	0.6	Positive
	Epitestosterone	289.2	109 97	135	22 24	3	17.8	0.6	Positive
	Fludrocortisone 21-acetate	423.2	238.9 120.9	160	22 36	3	16.38	1	Positive
	Fludroxycortide	437.2	180.9 120.8	160	30 40	3	16.75	1	Positive
	Flumethasone	411.2	253 121.1	120	10 34	3	16.01	1	Positive
	Flumethasone pivalate	495.3	475.2 57.1	150	10 20	3	18.17	0.6	Positive
	Fluocinolone acetonide	453.2	413.2 121.1	150	10 40	3	16.38	1	Positive

Fluoromethalone	377.2	320.9 278.9	110	8 10	3	16.58	1	Positive
Fluticasone propionate	501.2	312.9 292.9	110	8 10	3	17.8	1	Positive
Halcinonide	455.2	121 104.9	160	40 48	3	18.03	1	Positive
Hydrocortisone	363.2	121 105.1	130	24 50	3	15.68	1	Positive
Megestrol acetate	385.2	325.2 267.2	100	8 12	3	18.02	1	Positive
Melengestrol acetate	397.2	337.3 279.2	136	8 20	3	18.19	1	Positive
Methylprednisolone	375.2	357.1 161.1	110	6 20	3	16.4	1	Positive
Methylprednisolone 21-acetate	417.2	399.2 253.2	110	6 18	3	17.07	1	Positive
Methyltestosterone	303.2	109.1 97.1	166	32 32	4	17.68	1.2	Positive
Mometasone furoate	521.1	503 263	120	4 24	3	17.81	0.6	Positive
Nandrolone	275.2	239.1 109	140	13 24	3	16.93	1	Positive
Prednicarbate	489.2	380.9 114.8	120	6 12	3	18.02	1	Positive

	Prednisolone	361.2	343.1 146.9	110	6 20	3	15.64	0.5	Positive
	Prednisone	359.2	341.1 147	110	6 24	3	15.15	0.8	Positive
	Progesterone	315.2	109 97	140	25 21	3	18.3	0.8	Positive
	Testosterone	289.2	109 97	140	23 21	3	17.29	0.6	Positive
	Triamcinolone acetonide	435.2	396.9 338.9	110	10 10	3	16.41	0.8	Positive
	Betamethasone	393.2	373.2	103	4	4	16.27	1.2	Positive
			355.2 147.1		8 32				
	4-Nitrophenol	138	107.9 92	112	24 56	4	12.87	1.2	Negative
	Carbofuran	222.12	165.1 123.1	110	20 30	3	15.02	1.2	Positive
	Chlordimeform	197.1	117 46.2	120	32 16	4	5.83	1	Positive
insecticide	Coumaphos	363	334.9	120	16	4	18.19	1.2	Positive
			226.9		32				
	Propetamphos	282.11	156 137.9	125	4 20	4	17.33	1.2	Positive

		109		20				
Dichlorvos	221	79	100	32	4	14.78	1.2	Positive
		60		80				
		280		16				
Fenthion sulfoxide	295.02	109	140	32	3	15.2	1.2	Positive
		79		48				

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