Clean Green New Zealand Trust Registered Charity CC54185. https://cleangreennz.wordpress.com/

Independent Testing Shows Wildlife Poisoned by 1080 (Sodium Monofluoroacetate)

Two non-profit environmental groups in New Zealand have today published independent test results indicating that 1080 poison was the likely cause of death at an environmental catastrophe in Westport, New Zealand. On November 9th, 2019, one week after a Department of Conservation (DoC) aerial 1080 poison operation 140 kms upstream, dead wildlife washed down the flooded Buller River. Hundreds of potentially toxic carcasses of rats, a goat, birds and numerous aquatic species were strewn across the public beach at Westport.

The full results of tests undertaken by an independent laboratory¹, using the latest methodology² and equipment, include samples taken from 5 rats, 1 weka, 2 shearwaters, 1 starfish and 6 mussels. The samples from 4 of the 5 rats tested positive for three chemical markers of 1080 poison, including the toxic chemical, fluorocitrate. This was also the case for both the shearwater birds. The starfish and weka also tested positive for fluorocitrate. There were no traces of 1080 detected in the mussels. The tests included stomach and intestines of samples extracted from carcasses collected from the beach and Buller River by volunteers. For the security and safety of the independent chemists involved, the identity of the laboratory has been withheld.

These findings contradict claims by DoC on Wednesday, which stated 1080 was not found in any of the wildlife tested. This raises serious questions about the methodology employed by the laboratories commissioned to undertake DoC's testing. It appears from their lab reports (published on DoC's website) that the samples were only tested for the presence of the active ingredient, fluoroacetate. But as Prof Shaw, toxicologist from the University of Canterbury pointed out, because of the delay in testing this would have already been broken down into other substances, for example, fluorocitrate. Scientifically valid toxicological testing requires the most up-to-date, and accurate methods to be used, and in the case of testing for 1080, that means analysis of the metabolic chemical markers of the poison from a variety of sources within the carcass. There are other serious discrepancies in DoC's claims and associated toxicology reports. The number of rats tested is inconsistent, and in the pathology report of the weka it was noted "both lungs exuding frothy pink fluid", a common symptom in animals that have been victims of 1080 poisoning.

The full results of these independent tests will be made publicly available on Flora and Fauna of Aotearoa's website and copies sent to relevant government agencies and MPs. Flora and Fauna of Aotearoa and Clean Green NZ Trust, along with their volunteer supporters and many thousands of concerned New Zealand citizens, are calling on the government to act now to protect public health by initiating an immediate independent investigation into this tragic incident and stopping all aerial 1080 poison operations before more wildlife are harmed.

¹ Accredited with ISO9001; 17025; 27000 QMS

² Methodology is based upon the Pitt protocol (2015): biological material was removed from the frozen carcass, then an accurately weighed portion was homogenized using a polytron 3000 into extraction solvent. This solvent liquor was then cleaned-up and the cleaned pregnant solvent analyzed using HPLC with both Time of Flight, linear ion trap mass spectroscopy and fluorescence to check against standards containing fluoroacetate and fluorocitrate. The method was checked for repeatability and linearity. FT-IR and Raman were used to check for the presence of green dye acid 9, as that is only used in the bait pellets and is not a naturally occurring substance at detectable limits. Complete and robust Chain of Custody with SoPs available upon request.

Note to Journalists: Sodium Monofluoroacetate (Compound 1080) is a highly toxic, inhumane, synthetic metabolic poison. It has no antidote. It is banned in many countries. The sublethal effects of the poison on humans are unknown, however it's a proven endocrine disruptor and impacts upon the body's major organs. It is manufactured in the USA by Tull Chemicals and transported to New Zealand's two Government-funded poison bait factories, where it is mixed with cereal or other substances perceived to be attractive to 'pest' species (e.g. rats and possums). Tonnes of poison baits are regularly and systematically distributed via helicopters over thousands of hectares of New Zealand's land and waterways – including drinking water catchments. For over 65 years of this practice New Zealanders have voiced their increasing concern about the negative impact of this indiscriminate poisoning, not only on wildlife, but on public health too, from contamination of the food chain. To date, there has been no independent studies of the claimed 'effectiveness' of this policy and no epidemiological research has been undertaken.

ANALYTICAL REPORT.

SAMPLE IDENTITY 191115-3A

SAMPLE TYPE RAT

DATE OF SAMPLE RECEIPT 15-11-19

DATE OF SAMPLE EXTRACTION 16 - 11-19 SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION FROZEN, REFICI GERATES

PORTION OF SAMPLE TO BE EXTRACTED

STOMACH

WEIGHT OF SAMPLE USED IN EXTRACTION

10-1149

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF 6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD Y/N

EXTERNAL STANDARD Y/N

TYPE PESTANAL

Batch Number

LIMIT of DETCTION

0.001ppm

REPEATABILITY. 99.91%

RESULTS

FLUOROACETATE

38 ppm

FLUORO CITRATE

415 ppm

FT-IR + RAMAN

SHOWED GREEN TRILARYL DYE

Technician

Supervisor

18-11-19.

ANALYTICAL REPORT.

SAMPLE IDENTITY 19115

SAMPLE TYPE RAT

DATE OF SAMPLE RECEIPT 15 - 11-19

DATE OF SAMPLE EXTRACTION 16-11-19 SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION FROZEN REFRIGERATED

PORTION OF SAMPLE TO BE EXTRACTED INTESTINES

WEIGHT OF SAMPLE USED IN EXTRACTION

6-3199

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF 6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD Y/N

EXTERNAL STANDARD Y/N

TYPE PESTANAL

Batch Number

LIMIT of DETCTION 0.001ppm

REPEATABILITY. 99.91%

RESULTS

FLUOROACETATE

49 pan

FLU O ROCITRATE

370pp

ET-IR + RAMMAN

SHOUG GREEN TRIARY BYE.

Technician

Supervisor

18-11-12.

Toxicology Submission Form

Date received:			l lab case ID#:		X CASE #:					
20-11-1	19	19	1120 - 3) 10	11115-0	- E				
Bill to:				1 0	/2					
□ Veterinarian		□ Own	er	₩	Other:					
Species information										
			Constant Constant	☐ Car		☐ Equine	☐ Feline	☑ Ot	her.	
☐ Bovine ☐	☐ Canin	e	☐ Caprine	□ Car	nenu	□ Equine				
Referral veterinar	ian:					Owner:				
Name:						Name:				
Practice/Address:						Address:				
Phone:						Phone:				
Fax:						Fax:				
E-mail:						E-mail:			1	
Send report by:		Mail	☐ Fax ☐	E-mail		Send report l	oy: 🗆 Ma	il 🗆 Fa	x E-m	ıail
Animal identificat			# affec	- d			# dead: 7			
# in group:	2		1 # arrec	tea:			rueau.			
	Anin	nal ID/N	lame		Bre	ed	Color	Sex	Age	Weight
SHEARL			(1)		BIRD					
SHEARN			(2)		51135					
31 1 11										
Reason for submi	ssion (H	istory/0	Clinical signs/Labo	oratory re	esults)					
POSSIBI				Feor		NUM FI	Luoros	CETAT	E 3	202
As 3	A IT	5						4		
Course	di	01	u 1074	"	- 201	9 FR	our h	EST 00.	27 No	0274
BEACH.		FIN	IMMED	ME	LY.			- 0	A	
RECOVE				AGC	a 4	LABE	CEN.	Cof	C. 64	thresher
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			•							
Current treatmen	nt(s) (Lis	t drug,	dosages and time	es for eac	h medication):				
4-8-4										
N-A										

VERSION: 08.19.14

TOX.FORM.01

SOP REF#: LCR.06

Page 1 of 3

	SPECIMEN R	EQUIREMENT	
Red-top tubes	SST: Serum separator	G: Green top tubes (Heparin)	
3: Royal blue tubes	P: Purple top tubes (EDTA)		
	TOXICOL	DGY TESTS	
nticoagulants		GC-MS toxicant screen	/
l Serum (SST, R) / Plasma (P, G)	Liver	☐ Serum (SST, R) / Plasma (P, G)	Stomach content
Other:	☐ Bait	☐ Liver	Other: INTESTINES
anel includes: Brodifacoum, Brom	adiolone. Chlorphacinone,	Lead	
icoumarol, Difenacoum, Difethiale		☐ Whole blood (P, G)	☐ Liver
rsenic		☐ Other:	
61-1	☐ Kidney	Magnesium	
Whole blood (P, G) Liver	☐ Other:	☐ Serum (SST)	☐ Liver
flatoxins		☐ Other:	
Corn	☐ Mixed Feed	Manganese	
arbiturates		☐ Serum (SST)	☐ Liver
] Serum (SST) / Plasma (P, G)	☐ Liver	☐ Other:	
] Other:		Metals & Minerals screen (ICP)	
admium		□ Jiver	☐ Feed
] Serum (SST, R)	☐ Liver	Other:	
] Other:		Panel includes: As, Ca, Cu, Fe, Mg, M	o, P, Pb, Se. Zn
alcium		Methemoglobin	
] Serum (SST, R)	☐ Liver	☐ Whole blood (P, G)	
] Other:		Molybdenum	☐ Liver
-Carotene	==	☐ Whole blood (P, G)	□ Liver
] Serum (SST, R)	☐ Tissues:	Other: Mycotoxin screen (Aflatoxin + Vomit	ovin)
Feed:	☐ Other:	Feed	Other:
holinesterase	Ci Basia	Nitrate/Nitrite	Li Other.
Whole blood (G)	☐ Brain	□ Water	☐ Serum
hromium	Liver	☐Ocular fluid	□ Feed
☐ Serum (SST) ☐ Other:	□ tivei	Pesticides screen	
obalt		Stomach content	☐ Liver
Whole blood (P, G)	Liver	□ Feed	☐ Other:
Other:		Plant ID	
opper		☐ Plant	☐ Mushroom
☐ Serum (SST, R)	☐ Liver	☐ Other:	
☐ Liver (2-5 mg):	☐ Other:	Selenium	
☐ Copper biopsy		☐ Whole blood (P, G)	☐ Feed
:yanide		☐ Liver	☐ Other:
☐ Feed	☐ Plant	Strychnine	
☐ Stomach content		☐ Stomach content	☐ Urine
thanol, methanol		Liver	
☐ Whole blood		Urea	
ithylene glycol	_	Feed	☐ Liquid supplement
Whole blood	☐ Stomach content	Vitamin A	☐ Feed
Kidney		Serum (SST, R)	Other:
ormaldehyde		Liver	Li Ottlei.
Stomach content	☐ Water	Vitamin E ☐ Serum (SST, R)	☐ Feed
☐ Mud		Liver	☐ Other:
ron	☐ Liver	Zinc	
☐ Serum (SST, R) ☐ Other:	Livei	☐ Serum/ plasma (RB*)	☐ Liver
_ Other:	* 9	☐ Feed	Other:
11012 1006	ms Por anguar	* In case of suspected zinc deficiency	
Other analysis: HPLC MS	MS POST EXTERCTION	zinc toxicosis is suspected, then gre	
STOMACH+INTESTINES	. Sol A2+191	can be used.	
inecimen:	1000000000 100 to		
Specimen:		-	

Sample submission information & laboratory policies

Submission Forms: Contact the Toxicology Laboratory or visit the <u>Toxicology information page</u> specifically, for information about the toxicology submission form, rates, and sample submission procedures. So that we may optimally assist you, please provide as much information as possible pertaining to history, clinical signs and any current treatment regimens. The submission form should be placed in a SEPARATELY sealed bag accompanying the submitted sample(s).

Prices: See Toxicology sample submission procedures & rates. All rates are subject to change without notice.

Submit all laboratory samples to:

TOX.FORM.01

Referral Service: It a test is not listed, prease call the Toxicology Laboratory for availability. Several tests are not performed routinely by the Toxicology Laboratory. Samples received requesting tests that are run at outside laboratories will be forwarded to the appropriate lab for testing. Any additional costs associated with tests performed at outside laboratories are the responsibility of the submitting agent(s).

Turnaround time: For routine tests, 2 to 4 working days after the sample is received (Working Days=M-F, Day=8 am – 4 pm

Specimen: For the sample quantities and storage requirements, please refer to Toxicology sample submission procedures & rates web page. Each sample should be contained in two, separately sealed, leak proof plastic bags or plastic containers with an appropriate absorbent surrounding the containers in case of leakage of material during transport.

Sample types	Samples	Storage	Packaging/Shipment
Fresh tissue	Liver, Kidney, Fat; brain	NO FIXATION Refrigerate, freeze (ideally)	Secondary container/Overnight
GI content	Vomitus; Stomach/rumen/ abomasal/intestinal contents;	Refrigerate, freeze (ideally)	Secondary container/Overnight
Feed Baits	Feedstuffs/baits	Kept dry in plastic or paper bags (ideally)	Secondary container/Overnight/2 days
et da	Whole blood	Refrigerate	Secondary containers/Overnight
Fluids	Serum/Plasma; Ocular fluid, Urine; Water	Refrigerate, Freeze (ideally)	Secondary container/Overnight

Labeling Specimens: Clearly mark on each container the date the sample was collected, case number, the name of the submitting agency/Veterinary Hospital, the owner's name if applicable and the animal's identification or description of the environmental source of the sample material. Proper labeling eliminates the possibility of a specimen becoming separated from its submission form or being mistaken for another specimen. In addition, please, clearly mark any specimens that are suspected of carrying zoonotic diseases that could be considered hazardous to human health.

VERSION: 08.19.14 SOP REF#: LCR.06

ANALYTICAL REPORT.

SAMPLE IDENTITY 19 US 3E

SAMPLETYPE SUEVARUATER

WHOLE

DATE OF SAMPLE RECEIPT 20 - 11-19

DATE OF SAMPLE EXTRACTION 20 - 11 - 19 SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION FROZEON

PORTION OF SAMPLE TO BE EXTRACTED STOWAGE

WEIGHT OF SAMPLE USED IN EXTRACTION

11-14/9

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF 6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD Y/M

EXTERNAL STANDARD Y/N

TYPE PESTANAL

Batch Number

LIMIT of DETCTION 0.001ppm

REPEATABILITY. 99.91%

RESULTS

FLUOROACETATE

19 pm

FLUOROCITRATE

87 pp-

FI-IR + RAMAN

SHOULD PRESSUE OF TRIPLYEDYE GROW 9

Technician

Supervisor



ANALYTICAL REPORT.

SAMPLE IDENTITY 19112035

SAMPLE TYPE SHEAR WATER WHOLE

DATE OF SAMPLE RECEIPT 20 - 11 - 19

DATE OF SAMPLE EXTRACTION 20-11-12 SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION FROZEN

PORTION OF SAMPLE TO BE EXTRACTED STOWACH

WEIGHT OF SAMPLE USED IN EXTRACTION

11-1898

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF

6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD YAN

EXTERNAL STANDARD Y/N

TYPE PESTANAL

Batch Number

LIMIT of DETCTION 0.001ppm

REPEATABILITY. 99.91%

RESULTS

FLUOROACETATE

FLUOROCITRATE

FT-IK + RAMAN

Showed gree and dye

Technician

Supervisor

Toxicology Submission Form

Date received:		al lab case ID#:	19 11 15 -	366			
20-11-19	117	1115-3	141112	-26-6			
Bill to: ☐ Veterinarian	□ Ow	ner	Other:				
- Vetermanan	1 - 0	ner	i delici.				
Species informatio	n			-			
	Canine	☐ Caprine	☐ Camelid	☐ Equine	☐ Feline	☑ Other:	
						1	
Referral veterinari	an:			Owner:			
Name:				Name:			
Practice/Address:				Address:			
Phone:				Phone:			
Fax:				Fax:			
E-mail:				E-mail:			
Send report by:	☐ Mail	□ Fax □] E-mail	Send report l	y: □ Mail	□ Fax 🗹	E-mail
Animal identificati	ion						
# in group:		# affec	cted:		t dead:	+ 8	
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STARFISI	Animal ID/	Name		Breed	Color	Sex Age	Weig
2113141151							
MUSSELS							
11103322							
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Reason for submis	sion (History)	Clinical signs/Lah	oratory results)				
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416 SWWI		<u> </u>		, 30.00			V
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		, dosages and time	es for each medica	ntion):			
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RECEIVE		, dosages and time	es for each medica	ation):			
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RECEIVE		, dosages and time	es for each medica	ation):			

SOP REF#: LCR.06 Page 1 of 3

	SPECIMEN R	EQUIREMENT	
R: Red-top tubes	SST: Serum separator	G: Green top tubes (Heparin)	
RB: Royal blue tubes			
no. noja side takes		OGY TESTS	
Anticongulante		GC-MS toxicant screen	
Anticoagulants ☐ Serum (SST, R) / Plasma (P, G)	Liver	☐ Serum (SST, R) / Plasma (P, G)	☐ Stomach content
	☐ Bait	□ Liver	1 Other: 3004
Other:		Lead	
Panel includes: Brodifacoum, Brom		AND	Liver
Dicoumarol, Difenacoum, Difethial	one, Diphacinone	☐ Whole blood (P, G)	_ Live.
Arsenic		Other:	
☐ Whole blood (P, G)	☐ Kidney	Magnesium	□ Liver
☐ Liver	☐ Other:	☐ Serum (SST)	☐ Liver
Aflatoxins	_	Other:	
□ Corn	☐ Mixed Feed	Manganese	□ Liver
Barbiturates		☐ Serum (SST)	☐ Liver
☐ Serum (SST) / Plasma (P, G)	☐ Liver	Other:	
☐ Other:		Metals & Minerals screen (ICP)	□ Food
Cadmium		Liver	☐ Feed
☐ Serum (SST, R)	☐ Liver	Wother: BODY	o D Dh So 75
☐ Other:		Panel includes: As, Ca, Cu, Fe, Mg, M	0, r, rb, se. zii
Calcium		Methemoglobin	<i>*</i>
☐ Serum (SST, R)	☐ Liver	☐ Whole blood (P, G)	
☐ Other:		Molybdenum	☐ Liver
β-Carotene		☐ Whole blood (P, G)	Li Liver
☐ Serum (SST, R)	☐ Tissues:	Other:	havia)
☐ Feed:	☐ Other:	Mycotoxin screen (Aflatoxin + Vomit	
Cholinesterase	2022570 2	Feed	☐ Other:
☐ Whole blood (G)	☐ Brain	Nitrate/Nitrite	C Comme
Chromium	50000380	□ Water	☐ Serum
☐ Serum (SST)	☐ Liver	☐Ocular fluid	☐ Feed
☐ Other:		Pesticides screen	□ Lives
Cobalt		☐ Stomach content	☐ Liver
☐ Whole blood (P, G)	☐ Liver	☐ Feed	☐ Other:
☐ Other:		Plant ID	□ Muches see
Copper		Plant	☐ Mushroom
☐ Serum (SST, R)	☐ Liver	Other:	
☐ Liver (2-5 mg):	☐ Other:	Selenium	☐ Feed
☐ Copper biopsy		☐ Whole blood (P, G)	☐ Other:
Cyanide		Liver	LI Other.
□ Feed	☐ Plant	Strychnine	□ Urine
☐ Stomach content		☐ Stomach content	LI UTITIE
Ethanol, methanol		Liver	
☐ Whole blood		Urea	☐ Liquid supplement
Ethylene glycol		Feed	Liquid Supplement
☐ Whole blood	☐ Stomach content	Vitamin A	☐ Feed
☐ Kidney		Serum (SST, R)	
Formaldehyde		Liver	☐ Other:
☐ Stomach content	☐ Water	Vitamin E	☐ Feed
□ Mud		Serum (SST, R)	☐ Other:
Iron		Liver	Li Ottiet.
☐ Serum (SST, R)	☐ Liver	Zinc	☐ Liver
☐ Other:		☐ Serum/ plasma (RB*)	☐ Other:
		☐ Feed * In case of suspected zinc deficience	
Other analysis: WPLC MS	MS POST EXTRACTION	* In case of suspected zinc deficience zinc toxicosis is suspected, then gr	een ton tubes and red ton tubes
			cen top takes and red top takes
Bod eren 206	176176.	can be used.	
Specimen:			
-			

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GI content	Vomitus; Stomach/rumen/ abomasal/intestinal contents;	Refrigerate, freeze (ideally)	Secondary container/Overnight
Feed Baits	Feedstuffs/baits	Kept dry in plastic or paper bags (ideally)	Secondary container/Overnight/2 days
	Whole blood	Refrigerate	Secondary containers/Overnight
Fluids	Serum/Plasma; Ocular fluid, Urine; Water	Refrigerate, Freeze (ideally)	Secondary container/Overnight

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TOX.FORM.01 VERSION: 08.19.14 SOP REF#: LCR.06

ANALYTICAL REPORT.

SAMPLE IDENTITY 1911153G.

SAMPLE TYPE MUSSELS x 6.

DATE OF SAMPLE RECEIPT 20 - (1 - 1)9

DATE OF SAMPLE EXTRACTION QO - 1 SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION FRO 2001

PORTION OF SAMPLE TO BE EXTRACTED FLESH

WEIGHT OF SAMPLE USED IN EXTRACTION 13-9314

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF 6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD Y/N

EXTERNAL STANDARD Y/N

TYPE PESTANAL

Batch Number

LIMIT of DETCTION 0.001ppm

REPEATABILITY. 99.91%

RESULTS

NONE DEFECTED

Technician

Supervisor

ANALYTICAL REPORT.

SAMPLE IDENTITY 1911153F

SAMPLE TYPE

STARASU

DATE OF SAMPLE RECEIPT 20 - 11-19

WHOLE

DATE OF SAMPLE EXTRACTION 20 - ((-) SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION FOR BOOK

PORTION OF SAMPLE TO BE EXTRACTED 2004

WEIGHT OF SAMPLE USED IN EXTRACTION 19-3160

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF 6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD Y/N

EXTERNAL STANDARD Y/N

TYPE PESTANAL

Batch Number

LIMIT of DETCTION

0.001ppm

REPEATABILITY. 99.91%

RESULTS

FLUOROEITRATE

13ppm

Technician

Supervisor

Toxicology Submission Form

Date received:	Referra	al lab case ID#:		CASE #:					
20-11-15	9 191	(13-3	1911	115-3 H					
Bill to:			1/-						
☐ Veterinarian	☐ Owr	ner	E 01	ther:					
Species informati	ion	1					1		
☐ Bovine	□ Canine	☐ Caprine	☐ Came	ilid 🔲 Equi	ne 🔲	Feline	☐ Oth	ner:	
Referral veterina	rian:			Owner:					
Name:				Name:					
Practice/Address:	:			Address	s:				
, , , , , , , , , , , , , , , , , , , ,									
Phone:				Phone:					
Fax:				Fax:			y L		
E-mail:				E-mail:					
Send report by:	☐ Mail	☐ Fax	☐ E-mail	Send re	port by:	☐ Mail	☐ Fax	k ☐ E-n	nail
Send report by.	U Widii		<u> </u>						
Animal identifica	ation								
# in group:		# affe	cted:		# dead:	1			
	Animal ID/	Name		Breed	Color		Sex	Age	Weigh
WEKA				WEKA					
									1
		Clinical signs/Lab	oraton, roci	ultel					
Possi Bi		MAWIN Y			34 +	sice r	7550	CIANE	9
						DROP.			
	SODIUN						050	KING.	97
	COLLECT		11-3	2017 6061	VING		HOL	O IN	ner
		NASE M	ch '	34 RIVER	. Four	00 1	Più	, vc. U	
	DR 3AN			1 1000	4 5	1.00		000	
RECEIVE		GD, FRO	20N	LABELLED	and	INTA	<u>. </u>	CofC	
COMPLE	LED								
Current treatme	ent(s) (List drug,	, dosages and tim	es for each	medication):					
N-A									

Page 1 of 3

TOX.FORM.01

	SPECIMEN	I REQUIREMENT	
p tubes	SST: Serum separator	G: Green top tubes (Heparin)	
I blue tubes	P: Purple top tubes (EDTA)		
	TOXICO	DLOGY TESTS	
ulants		GC-MS toxicant screen	
(SST, R) / Plasma (P, G)	☐ Liver	☐ Serum (SST, R) / Plasma (P, G)	Stomach content
:	☐ Bait	Liver	Other: INTESTINES
iudes: Brodifacoum, Brom	adiolone, Chlorphacinone,	Lead	
rol, Difenacoum, Difethial	one, Diphacinone	☐ Whole blood (P, G)	☐ Liver
		☐ Other:	
e blood (P, G)	☐ Kidney	Magnesium	- Dubino
	Other:	Serum (SST)	☐ Liver
15	□ \$4tund Fond	Other: Manganese	
	☐ Mixed Feed	☐ Serum (SST)	□ Liver
ates 1 (SST) / Plasma (P, G)	Liver	Other:	
:	2 2.74.	Metals & Minerals screen (ICP)	
n		□ Liver	☐ Feed
ı (SST, R)	☐ Liver	Other:	
:		Panel includes: As, Ca, Cu, Fe, Mg, N	No, P, Pb, Se. Zn
		Methemoglobin	
ı (SST, R)	☐ Liver	☐ Whole blood (P, G) Molybdenum	
<u>:</u>		☐ Whole blood (P, G)	☐ Liver
ne 1 (SST, R)	☐ Tissues:	Other:	
((33), 11)	☐ Other:	Mycotoxin screen (Aflatoxin + Vom	itoxin)
terase		☐ Feed	☐ Other:
e blood (G)	☐ Brain	Nitrate/Nitrite	
ım		□ Water	Serum
n (SST)	☐ Liver	☐Ocular fluid	☐ Feed
:		Pesticides screen Stomach content	□ Liver
	[] Lives	☐ Feed	☐ Other:
e blood (P, G)	☐ Liver	Plant ID	
•		□ Plant	☐ Mushroom
n (SST, R)	☐ Liver	☐ Other:	
(2-5 mg):	☐ Other:	Selenium	
er biopsy		☐ Whole blood (P, G)	☐ Feed
		Liver	☐ Other:
Y	☐ Plant	Strychnine Stomach content	☐ Urine
ach content		Liver	- Office
, methanol e blood		Urea	
e glycol		□ Feed	☐ Liquid supplement
e blood	☐ Stomach content	Vitamin A	
:y		☐ Serum (SST, R)	☐ Feed
lehyde		Liver	☐ Other:
ach content	□ Water	Vitamin E	Dead
		☐ Serum (SST, R)	☐ Feed
- (CCT D)	☐ Liver	☐ Liver Zinc	☐ Other:
n (SST, R)	_ Liver	☐ Serum/ plasma (RB*)	□ Liver
3.	• 101	□ Feed	☐ Other:
nalysis: HPLC MS/N	AS POST EXTRACTION	* In case of suspected zinc deficient	cy, royal blue tubes are required. If
	C 0 10001 0 11	zinc toxicosis is suspected, then gi	reen top tubes and red top tubes
DOMACH + INTEST	mss. SOP 172419	can be used.	verena de la companya
n: ALL		_	
Se (
		<u> </u>	

VERSION: 08.19.14

Sample submission information & laboratory policies

Submission Forms: Contact the Toxicology Laboratory or visit the Toxicology information page specifically, for information about the toxicology submission form, rates, and sample submission procedures. So that we may optimally assist you, please provide as much information as possible pertaining to history, clinical signs and any current treatment regimens. The submission form should be placed in a SEPARATELY sealed bag accompanying the submitted sample(s).

Prices: See Toxicology sample submission procedures & rates. All rates are subject to change without notice.

Submit all laboratory samples to:

Referral Service: It a test is not listed, picase call the Toxicology Laboratory for availability. Several tests are not performed routinely by the Toxicology Laboratory. Samples received requesting tests that are run at outside laboratories will be forwarded to the appropriate lab for testing. Any additional costs associated with tests performed at outside laboratories are the responsibility of the submitting agent(s).

Turnaround time: For routine tests, 2 to 4 working days after the sample is received (Working Days=M-F, Day=8 am – 4 pm Specimen: For the sample quantities and storage requirements, please refer to Toxicology sample submission procedures & rates web page. Each sample should be contained in two, separately sealed, leak proof plastic bags or plastic containers with an appropriate absorbent surrounding the containers in case of leakage of material during transport.

Sample types	Samples	Storage	Packaging/Shipment
Fresh tissue	Liver, Kidney, Fat; brain	NO FIXATION Refrigerate, freeze (ideally)	Secondary container/Overnight
GI content	Vomitus; Stomach/rumen/ abomasal/intestinal contents;	Refrigerate, freeze (ideally)	Secondary container/Overnight
Feed Baits	Feedstuffs/baits	Kept dry in plastic or paper bags (ideally)	Secondary container/Overnight/2 days
	Whole blood	Refrigerate	Secondary containers/Overnight
Fluids	Serum/Plasma; Ocular fluid, Urine; Water	Refrigerate, Freeze (ideally)	Secondary container/Overnight

Labeling Specimens: Clearly mark on each container the date the sample was collected, case number, the name of the submitting agency/Veterinary Hospital, the owner's name if applicable and the animal's identification or description of the environmental source of the sample material. Proper labeling eliminates the possibility of a specimen becoming separated from its submission form or being mistaken for another specimen. In addition, please, clearly mark any specimens that are suspected of carrying zoonotic diseases that could be considered hazardous to human health.

> SOP REF#: LCR.06 **VERSION: 08.19.14**

ANALYTICAL REPORT.

SAMPLE IDENTITY 1911/5-3 H SAMPLE TYPE WEKA

MHOLE

DATE OF SAMPLE RECEIPT 20 -11-19

DATE OF SAMPLE EXTRACTION 20 1/- 19 SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION FROZEN REFER GERATES

PORTION OF SAMPLE TO BE EXTRACTED STOWACK

WEIGHT OF SAMPLE USED IN EXTRACTION

9,8879

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF 6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD Y/N

EXTERNAL STANDARD Y/N

TYPE PESTANAL

Batch Number

LIMIT of DETCTION 0.001ppm

REPEATABILITY. 99.91%

RESULTS

FLUORO CITRATE

19 ppm.

Technician

Supervisor

Toxicology Submission Form

Bill to: Veterinarian	Date received:	Referr	al lab case ID#:	TOX CASE		-				
Owner Other:		1 191	113-3	194112	-3-7-7	4				
Species information Bovine				□ Other		1				
Bovine Canine Caprine Camelid Equine Feline Gother:	☐ Veterinarian	L Owi	ner	U Other:		_}				
Bovine Canine Caprine Camelid Equine Feline Gother:	inecies informa	ntion								
Name: Practice/Address: Phone: Fax: E-mail: Send report by: Mail Fax E-mail Animal Identification # in group: # affected: # dead: O Animal ID/Name Breed Color Sex Age Weight CAT G CAT CAT CAT CAT CAT CAT CAT CAT CAT CAT	<u>.</u>	I	☐ Caprine	☐ Camelid	□ Equ	ine	☐ Feline	⊡ o	ther:	
Phone: Fax: E-mail: Send report by: Mail Fax E-mail Send report by: Mail Fax Fax: E-mail: Send report by: Mail Mail Fax: E-mail: Send report by: Mail Mail Mail Mail Mail Mail Mail Mail	Referral veterin	arian:			Owne	r:				
Phone: Fax: E-mail: Send report by: Mail Fax E-mail Animal identification # in group: # affected: # dead: O Animal ID/Name Breed Color Sex Age Weight CAT (3) CAT CAT (4) CAT CAT (5) CAT CAT (6) - (0) CAT CAT (7) CAT CAT (8) CAT CAT (9) CAT (9) C	Name:				1					
Fax: E-mail: Send report by: Mail Fax E-mail Animal identification # in group: # affected: # dead: Animal ID/Name Breed Color Sex Age Weight CAT	Practice/Addres	is:			Addre	ess:				
Fax: Fax:					-					
Fax: E-mail: Send report by: Mail Fax E-mail Animal identification # in group: # affected: # dead: Animal ID/Name Breed Color Sex Age Weight CAT (3) (AT) (AT)	- I				Phon	<u></u>				
E-mail: Send report by: Mail Fax E-mail Send report by: Mail Fax DE-mail Animal identification # in group: # affected: # dead: C Animal ID/Name Breed Color Sex Age Weight CAT (3) CAT CAT (4) CAT CAT (4) CAT CAT (5) CAT CAT (6) - (10) CAT Reason for submission (History/Clinical signs/Laboratory results)		· · · · · · · · · · · · · · · · · · ·								10
Send report by: Mail Fax E-mail Send report by: Mail Fax FE-mail Animal identification # affected: # dead: O Animal ID/Name Breed Color Sex Age Weight CAT (3) CAT CAT CAT (4) CAT CAT (5) CAT CAT (6) - (10) CAT CAT (7) CAT (8) CAT CAT (8) CAT CAT (9) CAT CAT (9) CAT CAT (10) CAT COLOR SEX Age Weight CAT (10) CAT CAT (10) CAT CAT (10) CAT COLOR SEX Age Weight CAT (10) CAT CA						l:			/	/
Animal identification # in group: # affected: # dead: 10 Animal ID/Name Breed Color Sex Age Weight CAT (3) CAT (4) CAT (5) CAT (6) CAT (7) CAT (8) CAT (9) CAT (9) CAT (10) CAT] E mail	-		ον· Π.Ν.	∕ail □ Fa	ax DE-r	mail
# in group: # affected: # dead: 10 Animal ID/Name Breed Color Sex Age Weight (AT (3) (AT (4) (AT (Send report by:	⊔ Mail	⊔ rax ∟	T E-IIIQII	Jeila	. aport t	٠,٠ ـــــ ١٧			
# in group: # affected: # dead: 10 Animal ID/Name Breed Color Sex Age Weight (AT (3) (AT (4) (AT (Animal identific	cation								
Reason for submission (History/Clinical signs/Laboratory results) Reason for submission (History/Clini	# in group:		# affec	ted:		- 1	# dead: \	0		
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Reason for submission (History/Clinical signs/Laboratory results) Reason for submission (History/Clini			/Name				Color	Sex	Age	weight
Reason for submission (History/Clinical signs/Laboratory results) Reason for submission (History/Clini	7					-			+	-
Reason for submission (History/Clinical signs/Laboratory results) Reason for submission (History/Clinical signs/Laboratory Reason History									-	
Reason for submission (History/Clinical signs/Laboratory results) POSSIBLE POSSONING FROM SODOM FLUORARETATE COLDETED ON 10Th 11-2019 FROM WESTORTHORTH BEALM AM. MULTIPLE BODIES IN BAGS. 3 INTACT REST INNARDS MISSING STOMACH ARRA SHOWED SIGNS OF PECKING AND CREWIN ALL RECEIVED FROZEN & LABOLIED. 3 COMPLETE TRIMANS ANAL	107	4	~		CAN				 	+
POSSIBLE POSSONING FROM SODOM FLLORARETATE COLECTED ON 10TH 11-2019 FROM WEST OVETNORTH BEACH AM. MULTIPLE BODIES IN BAGS. 3 INTACT REST INNARMS MISSING STOMACH ARRA SHOWED SIGNS OF PECKING AND CHEWIN ALL RECEIVED FROZEN & LABOLIED. 3 COMPLETE ANIMALS ANAL	RATE (C	5) - (ic)		CAI	-			 	
POSSIBLE POSSONING FROM SODOM FLLORARETATE COLECTED ON 10TH 11-2019 FROM WEST OVETNORTH BEACH AM. MULTIPLE BODIES IN BAGS. 3 INTACT REST INNARMS MISSING STOMACH ARRA SHOWED SIGNS OF PECKING AND CHEWIN ALL RECEIVED FROZEN & LABOLIED. 3 COMPLETE ANIMALS ANAL						+			 	
POSSIBLE POSSONING FROM SODOM FLLORARETATE COLECTED ON 10TH 11-2019 FROM WEST OVETNORTH BEACH AM. MULTIPLE BODIES IN BAGS. 3 INTACT REST INNARMS MISSING STOMACH ARRA SHOWED SIGNS OF PECKING AND CHEWIN ALL RECEIVED FROZEN & LABOLIED. 3 COMPLETE ANIMALS ANAL				L				<u> </u>	_L	
POSSIBLE POSSONING FROM SODOM FLLORARETATE COLECTED ON 10TH 11-2019 FROM WEST OVETNORTH BEACH AM. MULTIPLE BODIES IN BAGS. 3 INTACT REST INNARMS MISSING STOMACH ARRA SHOWED SIGNS OF PECKING AND CHEWIN ALL RECEIVED FROZEN & LABOLIED. 3 COMPLETE ANIMALS ANAL			/Cliniand sizes /Lab	oratory recults)						
COLECTED ON 10TH 11-2019 FROWN WEST-COLETNORTH BETWEEN AM. MULTIPLE BODIES IN BAGS. 3 INTACT REST INNAMOS MISSING STOMACH AREA SHOWED SIGNS OF PECKING AND CHEWING ALL RECEIVED FROZEN & LABOLIED. 3 COMPLETE MINIMALS AWALL					5000	M	ELLO	POACE	30.00	
AM. MULTIPLE BODIES IN BAGS. 3 INTACT REST INNAMS MISSING STOMACH PREAD SHOWED SIGNS OF PECKING AND CHEWIN ALL RECEIVED FROZEN & LABOURD. B. COMPLETE MINIMALS AWAL						vo 1	15500	KTNOR	in B	SHUM
MISSING STOMACH AREA SHOWED SIGNS OF PECKING AND CHEWIN ALL RECEIVED FROZEN & LABOLIED. 3 COMPLETE MINIMALS ANAL				_						UNARDS
ALL RECEIVED FROZEN & LABOLIED. BLOMPLOTE MILMONS AWAL										
1100 100										
011 11800 001 001	1+CC 18			4 0636	LUNU 3 (- 101.0	<u>~</u>		
Co. C COVII CI C	Corc	CONFETT					· · · · · · · · · · · · · · · · · · ·			
Current treatment(s) (List drug, dosages and times for each medication):	Current treatm	nent(s) (List drug	, dosages and tim	es for each med	ication):					
	- Carrent Steam									
NA	Α.,									

SOP REF#: LCR.06

TOX.FORM.01

VERSION: 08.19.14

SPECIMEN REQUIREMENT						
p tubes	SST: Serum separator	G: Green top tubes (Heparin)				
l blue tubes	P: Purple top tubes (EDTA)					
	TOXICO	OLOGY TESTS				
ulants (SST, R) / Plasma (P, G)	☐ Liver	GC-MS toxicant screen ☐ Serum (SST, R) / Plasma (P, G) ☐ Liver	☑ Stomach content ☑ Other: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
i Judas Prodifeccum Brom	adiolone, Chlorphacinone,	Lead				
rol, Difenacoum, Difethial		☐ Whole blood (P, G) ☐ Other:	☐ Liver			
e blood (P, G)	☐ Kidney ☐ Other:	Magnesium Serum (SST) Other:	Liver			
15	☐ Mixed Feed	Manganese Serum (SST)	Liver			
ates 1 (SST) / Plasma (P, G) :	☐ Liver	Other: Metals & Minerals screen (ICP)				
n 1 (SST, R)	Liver	☐ Liver ☑ Other: Panel includes: As, Ca, Cu, Fe, Mg, N	☐ Feed Ao. P. Pb. Se. Zn			
: 1 (SST, R)	Liver	Methemoglobin Whole blood (P, G) Molybdenum				
ene n (SST, R)	☐ Tissues:	☐ Whole blood (P, G) ☐ Other: Mycotoxin screen (Aflatoxin + Vom	☐ Liver			
A	☐ Other:	☐ Feed	☐ Other:			
e blood (G)	☐ Brain	Nitrate/Nitrite	The state of the s			
im		□ Water	☐ Serum			
n (SST)	☐ Liver	☐Ocular fluid	☐ Feed			
:		Pesticides screen Stomach content	☐ Liver ☐ Other:			
e blood (P, G)	☐ Liver	Plant ID	☐ Mushroom			
n (SST, R) (2-5 mg):	☐ Liver ☐ Other:	☐ Other: Selenium ☐ Whole blood (P, G)	☐ Feed			
er biopsy	☐ Plant	☐ Liver Strychnine	☐ Other:			
ach content , methanol		☐ Stomach content ☐ Liver ☐ Urea	- Office			
e blood e glycol e blood	☐ Stomach content	☐ Feed Vitamin A	☐ Liquid supplement			
ehyde		☐ Serum (SST, R) ☐ Liver	☐ Feed ☐ Other:			
ach content	□ Water 	Vitamin E ☐ Serum (SST, R) ☐ Liver	☐ Feed ☐ Other:			
n (SST, R)	□ Liver	Zinc ☐ Serum/ plasma (RB*) ☐ Feed	☐ Liver ☐ Other:			
malysis: HPLC MS/18	The same of the sa	* In case of suspected zinc deficien zinc toxicosis is suspected, then g can be used.	cy, royal blue tubes are required. If treen top tubes and red top tubes			
in: ALL		-	*			

VERSION: 08.19.14

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Specimen: For the sample quantities and storage requirements, please refer to Toxicology sample submission procedures & rates web page. Each sample should be contained in two, separately sealed, leak proof plastic bags or plastic containers with an appropriate absorbent surrounding the containers in case of leakage of material during transport.

Sample types	Samples	Storage	Packaging/Shipment
Fresh tissue	Liver, Kidney, Fat; brain	NO FIXATION Refrigerate, freeze (ideally)	Secondary container/Overnight
GI content	Vomitus; Stomach/rumen/ abomasal/intestinal contents;	Refrigerate, freeze (ideally)	Secondary container/Overnight
Feed Baits	Feedstuffs/baits	Kept dry in plastic or paper bags (ideally)	Secondary container/Overnight/2 days
el	Whole blood	Refrigerate	Secondary containers/Overnight
Fluids	Serum/Plasma; Ocular fluid, Urine; Water	Refrigerate, Freeze (ideally)	Secondary container/Overnight

Labeling Specimens: Clearly mark on each container the date the sample was collected, case number, the name of the submitting agency/Veterinary Hospital, the owner's name if applicable and the animal's identification or description of the environmental source of the sample material. Proper labeling eliminates the possibility of a specimen becoming separated from its submission form or being mistaken for another specimen. In addition, please, clearly mark any specimens that are suspected of carrying zoonotic diseases that could be considered hazardous to human health.

VERSION: 08.19.14 SOP REF#: LCR.06

Page 3 of 3

ANALYTICAL REPORT.

SAMPLE IDENTITY 19 1115-31

SAMPLE TYPE CA

DATE OF SAMPLE RECEIPT 20 - 11-19

WHOLE

DATE OF SAMPLE EXTRACTION 22-11-19 SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION FROZON

PORTION OF SAMPLE TO BE EXTRACTED STOWAGE

WEIGHT OF SAMPLE USED IN EXTRACTION

9-7439

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF

6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD Y/N

EXTERNAL STANDARD Y/N

TYPE PESTANAL

Batch Number

LIMIT of DETCTION 0.001ppm

REPEATABILITY. 99.91%

RESULTS

NONE DETECTED

Technician

Supervisor

ANALYTICAL REPORT.

SAMPLE IDENTITY 19 1115 - 31 SAMPLE TYPE RATE

DATE OF SAMPLE RECEIPT 20 - 11-19

WHOLE

DATE OF SAMPLE EXTRACTION 22 -\(-\\^Q\) SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION FROZEN

PORTION OF SAMPLE TO BE EXTRACTED INTESTINES

WEIGHT OF SAMPLE USED IN EXTRACTION

9-1939

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF

6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD Y/M

EXTERNAL STANDARD Y/X

TYPE PESTANAL

Batch Number

LIMIT of DETCTION 0.001ppm

REPEATABILITY. 99.91%

RESULTS

NONE DETECTED

Technician

Supervisor

ANALYTICAL REPORT.

SAMPLE IDENTITY 19115-3K SAMPLE TYPE RAT

DATE OF SAMPLE RECEIPT 20-11-19

WHOLF

DATE OF SAMPLE EXTRACTION 22-11-19 SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION FRO ZEN

PORTION OF SAMPLE TO BE EXTRACTED INTESTINES

WEIGHT OF SAMPLE USED IN EXTRACTION 8- 1646

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF

6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD Y/N

EXTERNAL STANDARD Y/M

TYPE PESTANAL

Batch Number

LIMIT of DETCTION 0.001ppm

REPEATABILITY. 99.91%

RESULTS

FLUOROACEMTE

Il ppm

FLUOROCITRATE 119 ppm

FT-IR + RAMAN

SHOWED PRESENCE OF TRI ARMI

GREEN DYE

Technician

Supervisor



ANALYTICAL REPORT.

SAMPLE IDENTITY 191115-3K SAMPLE TYPE RAT

DATE OF SAMPLE RECEIPT 20 - 11-19

WHOLE

DATE OF SAMPLE EXTRACTION 22-11-19 SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION FROZEN

PORTION OF SAMPLE TO BE EXTRACTED STOWACH

WEIGHT OF SAMPLE USED IN EXTRACTION 9-319 cv

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF 6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD Y/N

EXTERNAL STANDARD Y/N

TYPE PESTANAL

Batch Number

LIMIT of DETCTION 0.001ppm

REPEATABILITY. 99.91%

RESULTS

FLUOROACETATE 21pp

FLUOROCITRATE 312 ppm

FT-IR +RAMAN

Snowed PRESENCE OF THE MARYL

GREEN DYE

Technician

Supervisor

ANALYTICAL REPORT.

TES-3111P1 YITHABLE

SAMPLE TYPE RAT

DATE OF SAMPLE RECEIPT 20 - 11 - 19

DATE OF SAMPLE EXTRACTION 12 - 11-19 SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION FROZEN

PORTION OF SAMPLE TO BE EXTRACTED STOWACH

WEIGHT OF SAMPLE USED IN EXTRACTION

7-1199

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF 6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD Y/N

EXTERNAL STANDARD Y/N

TYPE PESTANAL

Batch Number

LIMIT of DETCTION 0.001ppm

REPEATABILITY. 99.91%

RESULTS

FLUOROCITRATE

IM ppm

Technician

Supervisor

ANALYTICAL REPORT.

SAMPLE IDENTITY 1911 15-35 SAMPLE TYPE RAT

DATE OF SAMPLE RECEIPT 20-11-19

WHOLE

DATE OF SAMPLE EXTRACTION 2 2 11-19 SAMPLE EXTRACTION METHOD SOP172

SAMPLE STORAGE and CONDITION F2020

PORTION OF SAMPLE TO BE EXTRACTED INTESTINES

WEIGHT OF SAMPLE USED IN EXTRACTION 8-3765

ANALYSIS

METHOD OF ANALYSIS

SOP 191

CLEAN UP REQUIRED Y/N

SOP 172

METHOD OF DETERMINATION AND DETECTION METHOD Agilent 1270 + SCIEX QTRAP QTOF 6500/6600

RECOVERY

>99.8%

INTERNAL STANDARD Y/M

EXTERNAL STANDARD Y/M

TYPE PESTANAL

Batch Number

LIMIT of DETCTION 0.001ppm

REPEATABILITY. 99.91%

RESULTS

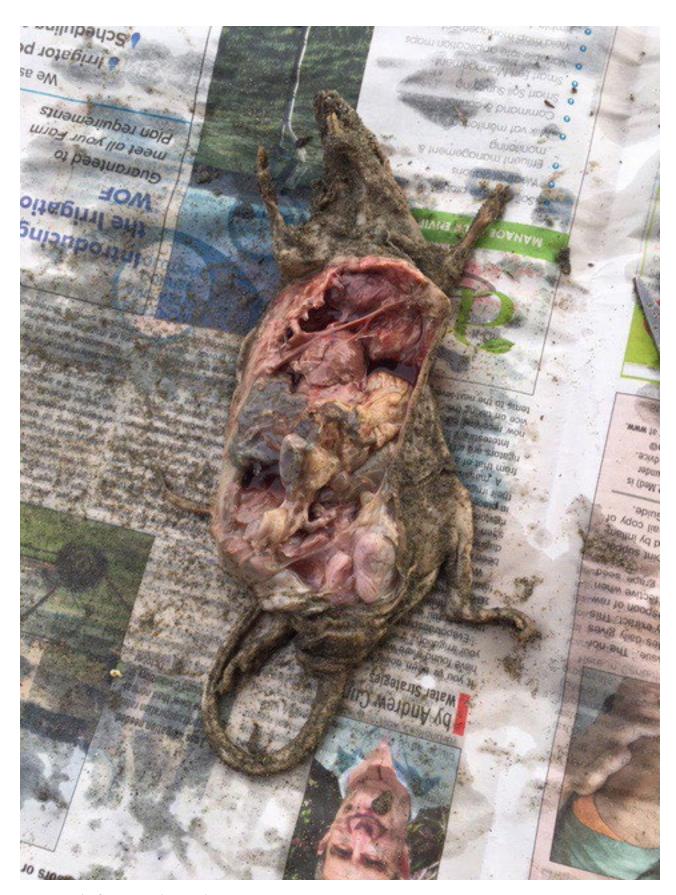
FLUOROCITEME 3ppm

FITR + RAMAN SNOWED PRESENCE OF TRIABUL

GREEN DYE

Technician

Supervisor



Rat sample from North Beach, Westport