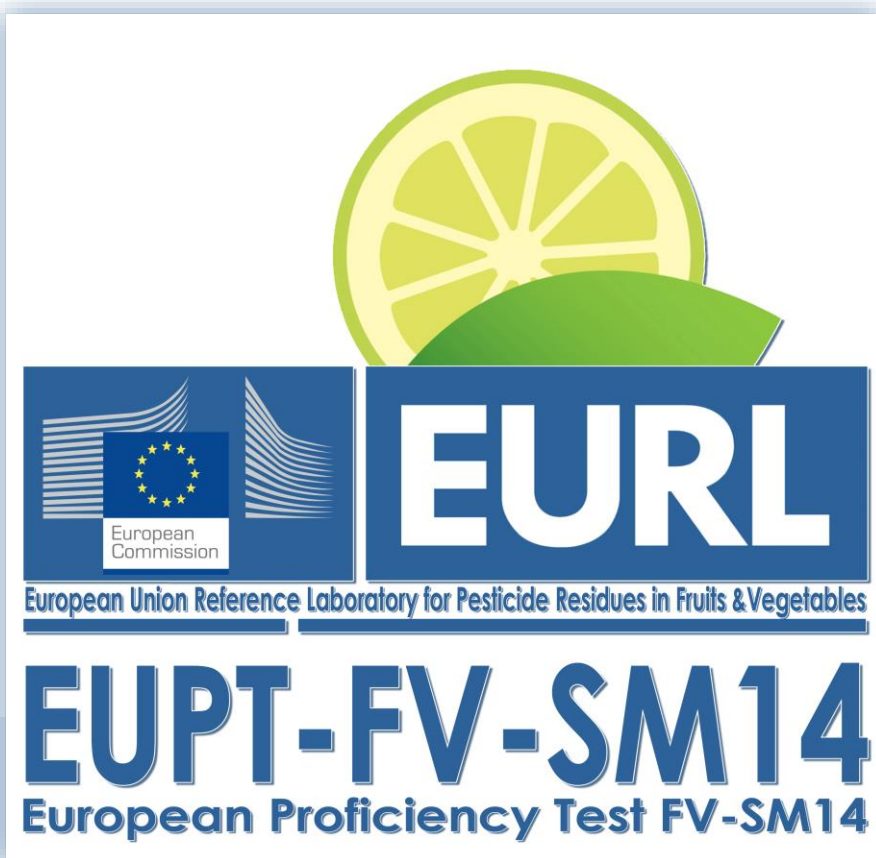


EUROPEAN COMMISSION PROFICIENCY TEST FOR PESTICIDE RESIDUES IN FRUITS AND VEGETABLES



SCREENING METHODS 14 TOMATO



RESULTS

ACTIVITY	DATE
Receiving Application Form from invited laboratories.	1 st January 2022 – 11 th February 2022
Specific Protocol published on the Web site.	21 st February 2022 at the latest
Sample distribution.	7 th March 2022
Deadline for receiving results: Fill in “Results Form”	72 hours after receiving the sample
Preliminary Report: only results. no statistical treatment.	April 2022
Final Report distributed to the Laboratories.	August 2022



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Spiking and Homogenisation

Freeze



Milling

Transfer to freezer bags



2nd milling

Transfer to bottles



Storage



Shipment



69 Registered

63 Sent Results

EUPT-FV-SM014- Participants				63 Participants
COUNTRY	No.	COUNTRY	No.	
Austria	1	Lithuania	2	
Belgium	4	Luxembourg	1	
China	3	Malta	1	
Costa Rica	1	Norway	1	
Croatia	2	Perú	1	
Czech Republic	2	Poland	1	
Denmark	1	Portugal	1	
Finland	1	Romania	1	
France	6	Spain	12	
Germany	11	Sweden	2	
Hungary	3	Switzerland	2	
Ireland	1	The Netherlands	1	
Italy	2	Turkey	1	



Participation

Austria
Belgium
Croatia
Czech Republic
Denmark
Finland
France
Germany
Hungary
Ireland

Italy
Lithuania
Luxemburg
Malta
Norway
Poland
Portugal
Romania
Spain
Sweden
Switzerland
The Netherlands

**21 EU/EFTA
Countries**

China
Costa Rica
Peru
Turkey

**4 Non EU/EFTA
Countries**

RESULTS

SRM17



Bifenazate/Bifenazate diazene
Captan
Chlorothalonil
Flonicamid
Folpet
Formetanate
Propamocarb
Pymetrozine
~~Spirotetramat~~

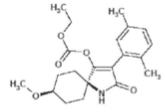
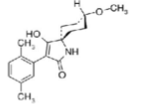
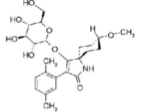
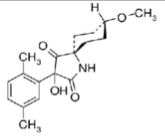
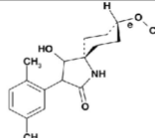
Below 0.01 mg/kg

Analytical Standards Spiked



8-Hydroxyquinoline
Aclonifen
Cyflumetofen
Cyhalofop butyl
Mefentrifluconazole
Oxadiargyl
Oxyfluorfen
Pencycuron
Penflufen
Permethrin
Pyraclostrobin
Pyridate
Triazophos

Metabolites

		
Spirotetramat	Spirotetramat Enol	Spirotetramat Glucoside
		
Spirotetramat Keto-hydroxy	Spirotetramat Mono-hydroxy	

Tetrahydrophthalimide (THPI) (captan)

~~TFNA (flonicamid)~~

TFNG (flonicamid)

Phthalimide (folpet)

~~Pyridate (pyridate)~~

Spirotetramat-enol (~~spirotetramat~~)

Spirotetramat-enol-glucoside (~~spirotetramat~~)

~~Spirotetramat keto-hydroxy (spirotetramat)~~

- Phthalimide was evaluated as Folpet
- All the propamocarb metabolites were evaluated as Propamocarb
- Pyridafol was evaluated as Pyridate
- All the spirotetramat metabolites were evaluated as Spirotetramat
- Tetrahydrophthalimide (THPI) was evaluated as Captan
- TFNA, TFNA-AM and TFNG were evaluated as Flonicamid

SPIKED PESTICIDES
SRM17 INCURRED PESTICIDES

8-Hydroxyquinoline	Oxadiargyl
Aclonifen	Oxyfluorfen
Bifenazate/Bifenazate diazene (SRM17)	Pencycuron
Captan (SRM17)	Penflufen
Chlorothalonil (SRM17)	Permethrin
Cyflumetofen	Propamocarb (SRM17)
Cyhalofop butyl	Pymetrozine (SRM17)
Flonicamid (SRM17)	Pyraclostrobin
Folpet (SRM17)	Pyridate
Formetanate (SRM17)	Spirotetramat (SRM17)
Mefentrifluconazole	Triazophos

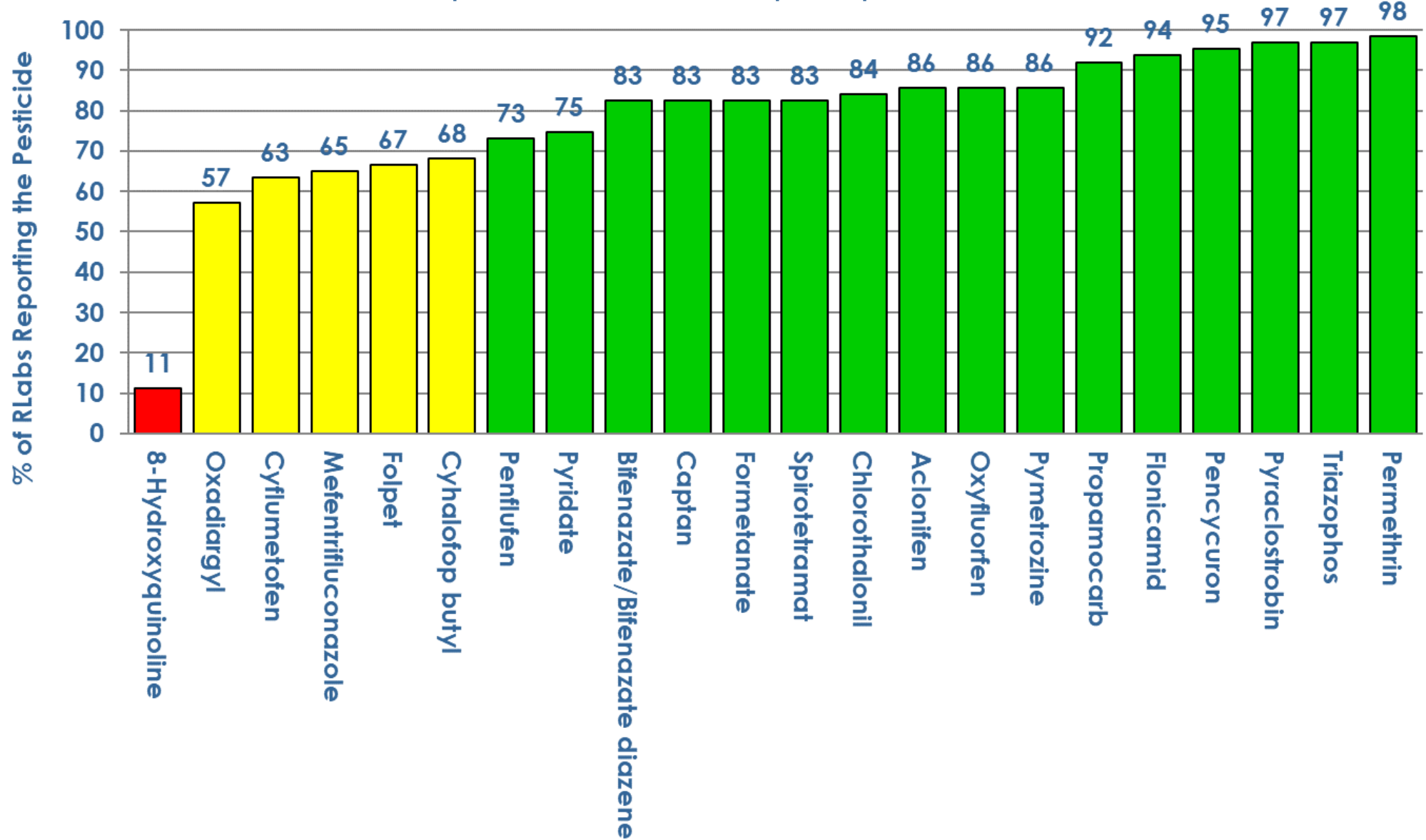
Results

22 Evaluated Pesticides
63 Laboratories

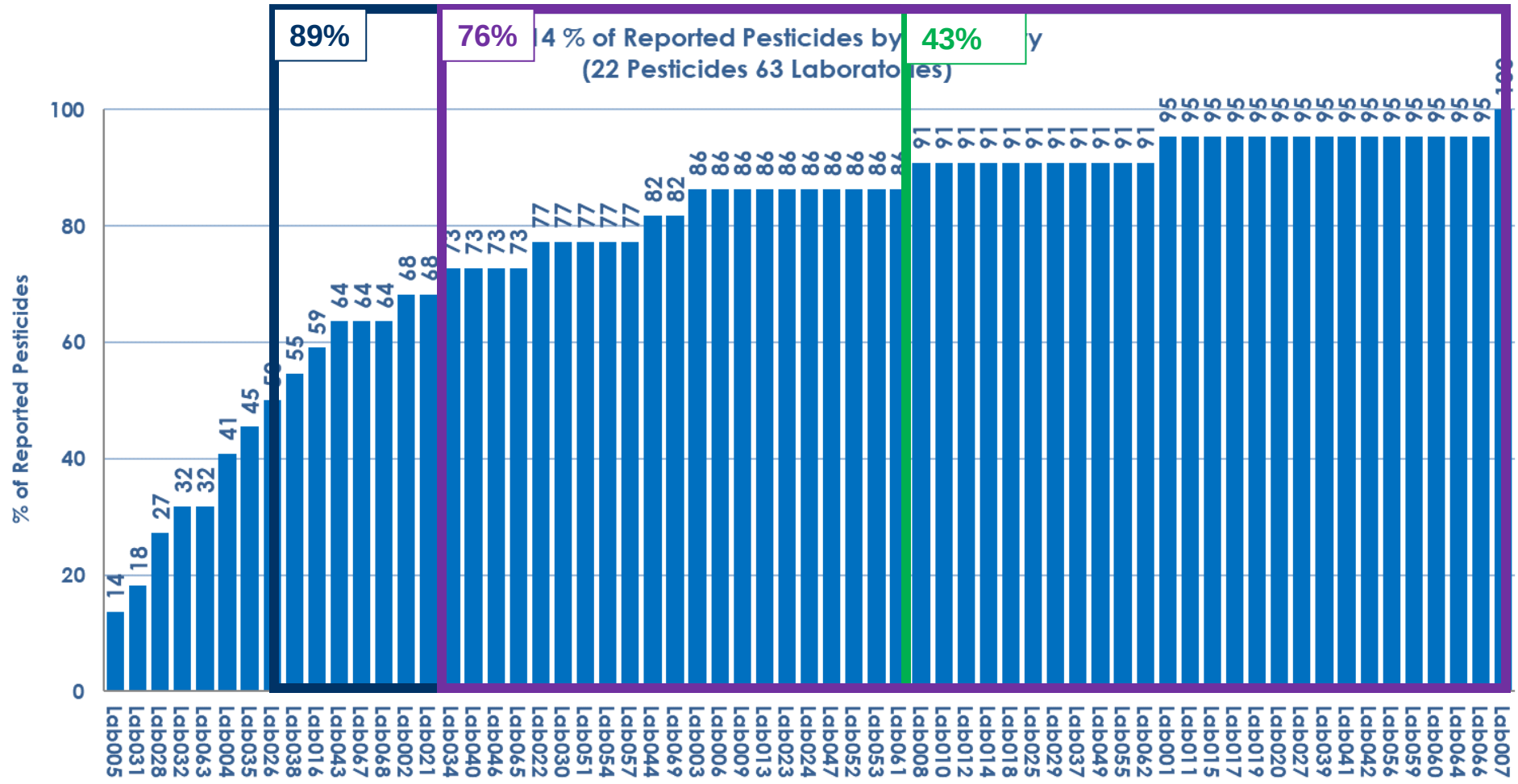
22 Pesticides= 1+5+16

	8-Hydroxyquinoline	Aclonifen	Bifenazate/ Bifenazate diazene	Captan	Chlorothalonil	Cyflumetofen	Cyhalofop butyl	Flonicamid	Folpet	Formetanate	Mefenitrifluconazole	Oxadiargyl	Oxyfluorfen	Pencycuron	Penflufen	Permethrin	Propamocarb	Pymetrozine	Pyraclostrobin	Pyridate	Spirotetramat	Triazophos
Total Number of Labs reporting	7	54	52	52	53	40	43	59	42	52	41	36	54	60	46	62	58	54	61	47	52	61
% of labs reporting	11	86	83	83	84	63	68	94	67	83	65	57	86	95	73	98	92	86	97	75	83	97

% of Reported Results per pesticide



Results



RESULTS

Compounds reported by 3 or more laboratories:

Azoxystrobin (3 laboratories)

Emamectin (24 laboratories)

(Emamectin, Emamectin B1A, Emamectin B1B, Emamectin benzoate, Emamectin benzoate B1A, Emamectin Benzoate B1B)

Metalaxyl (25 laboratories)

Sulfotep (25 laboratories)

**All of them have been reported below
0.01 mg/kg or not quantified**



Results

Other compounds reported:

Reported below 0.01 mg/kg or not quantified

1,3-dichloro-2-propanol phosphate (TDCPP)

Allethrin

Amitraz

Cinmethylin

Diethyltoluamide (DEET)

Dodemorph

Fenuron

Fuberidazole

Haloxifop

Perchlorate

Phenisopham

Phosmet

Propisochlor

Pyracarbolid

Thiram



Results

Other compounds reported:

Reported ABOVE 0.01 mg/kg

Benazolin

Bromide

Dichlofenthion

Diphenylamine

Dithiocarbamate (as CS₂)

Fenpyrazamine

Metrafenone

Oxadixyl

Concentrations

(only for informative purposes)

Concentrations (only for informative purposes)

Pesticides	No of Detections	N° of Labs detected the pesticide	% of Labs detected the pesticide	No of Conc. Reported	No of Conc. Reported by EU/EFTA labs	Conc. Homogeneity test (mg/kg)	Robust mean (mg/kg)	CV (%)
8-hydroxyquinoline	7	7	11	4	2	0.035	0.058	34.0
Aclonifen	58	54	86	53	49	0.052	0.053	26.5
Bifenazate/Bifenazate diazene	84	52	83	69	63	0.097	0.067	53.6
Captan	52	45	71	44	41	0.232	0.173	44.3
Tetrahydrophtalimide (THPI)	45	41	65	38	35	NA	0.291	43.9
Chlorothalonil	55	53	84	49	45	0.048	0.058	45.7
Cyflumetofen	42	40	63	37	30	0.113	0.087	34.9
Cyhalofop butyl	48	43	68	41	37	0.078	0.069	23.9
Flonicamid	68	59	94	62	58	0.132	0.137	27.5
TFNG	28	28	44	27	26	0.015	0.045	38.6
Folpet	46	41	65	40	38	0.036	0.032	41.2
Phthalimide	28	24	38	23	21	NA	0.014	44.1
Formetanate	54	52	83	49	44	0.475	0.536	53.6
Mefentrifluconazole	45	41	65	41	35	0.050	0.045	26.3
Oxadiargyl	39	36	57	36	33	0.053	0.056	21.5
Oxyfluorfen	59	54	86	52	47	0.073	0.064	28.7
Pencycuron	64	60	95	59	54	0.065	0.069	22.9
Penflufen	52	46	73	47	43	0.054	0.051	19.1
Permethrin	73	62	98	67	62	0.062	0.071	34.4
Propamocarb	72	58	92	60	55	1.050	1.105	28.3
Pymetrozine	56	54	86	54	51	0.030	0.043	41.0
Pyraclostrobin	66	61	97	59	54	0.092	0.086	17.9
Pyridate	50	45	71	46	41	0.075	0.107	46.4
Spirotetramat-enol	51	47	75	48	41	0.048	0.052	45.8
Spirotetramat-enol-glucoside	42	42	67	40	36	0.038	0.041	34.7
Triazophos	69	61	97	62	58	0.110	0.096	27.9

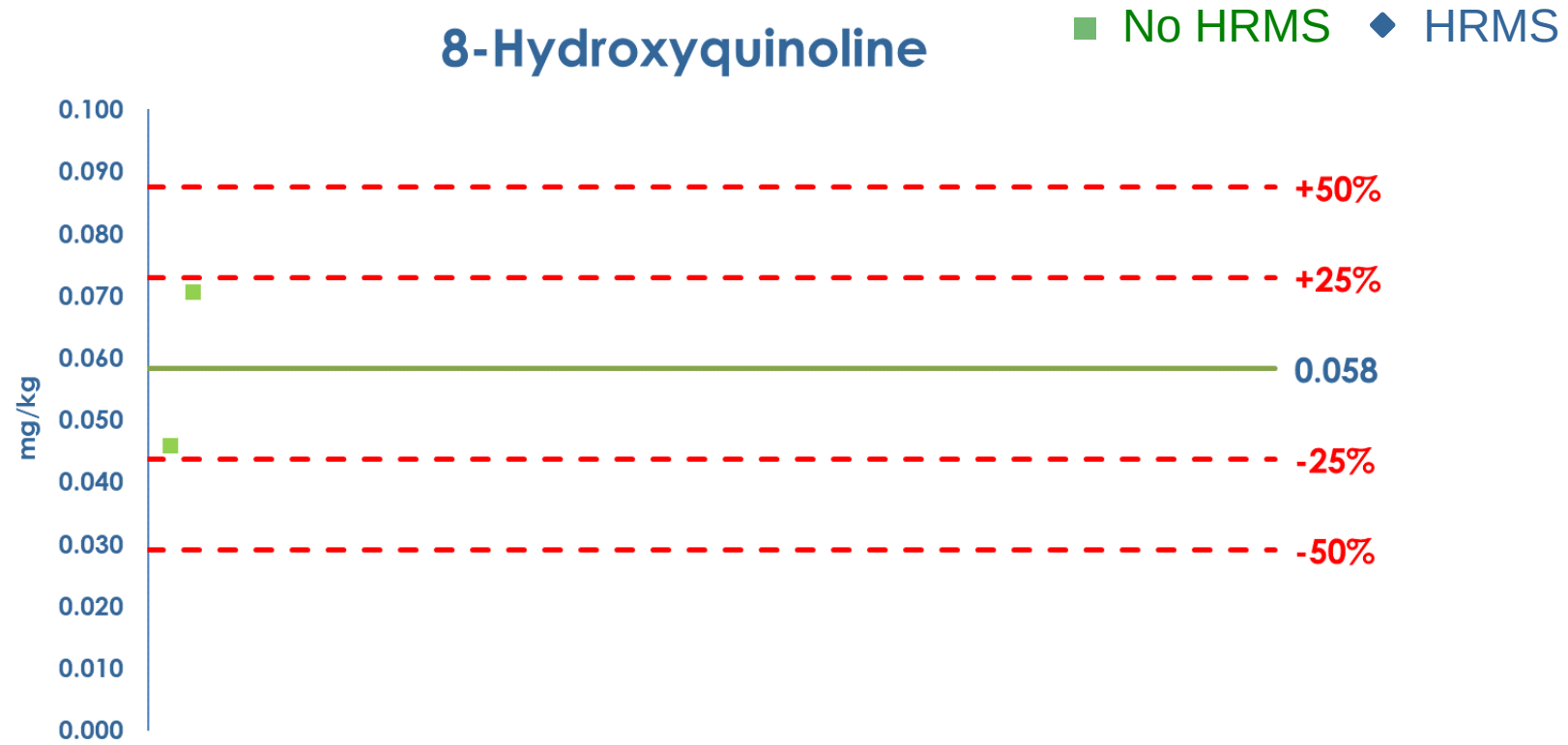
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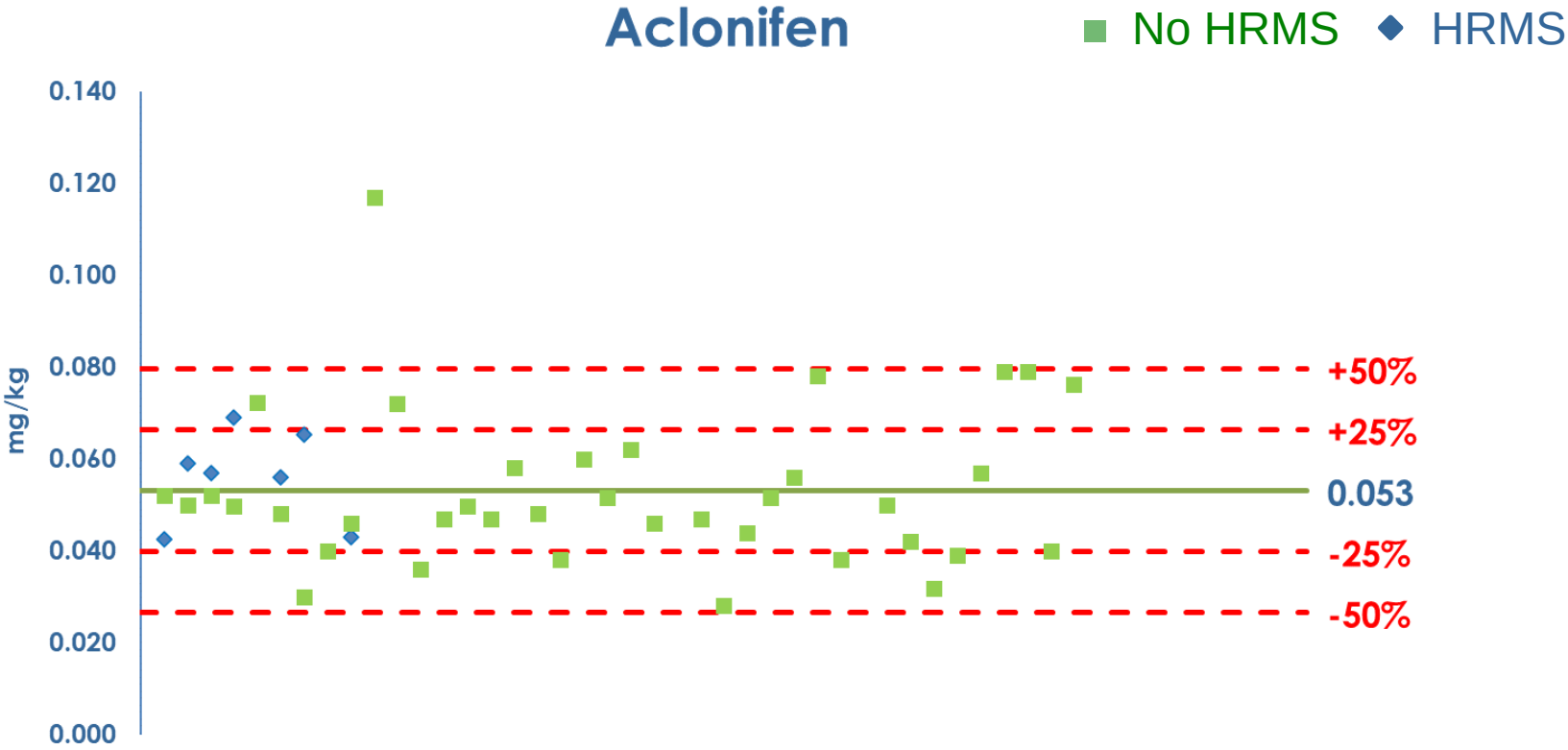
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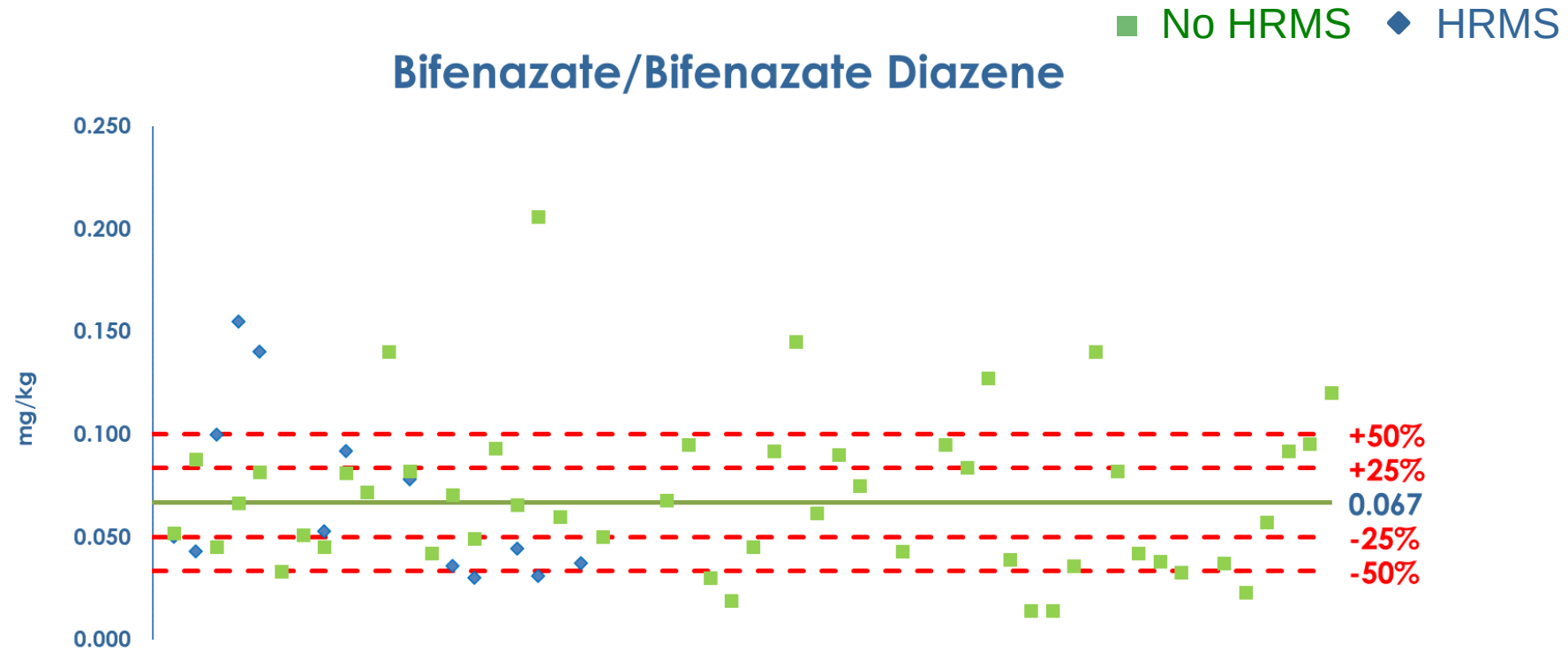
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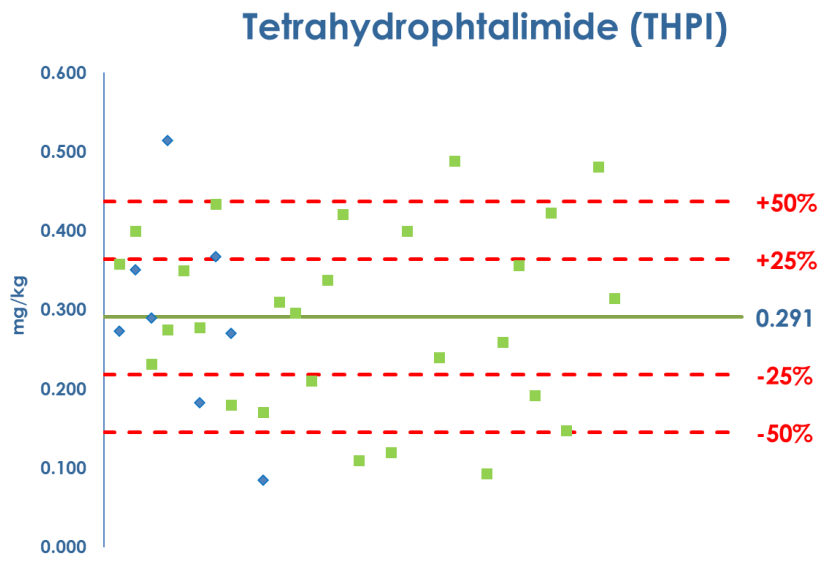
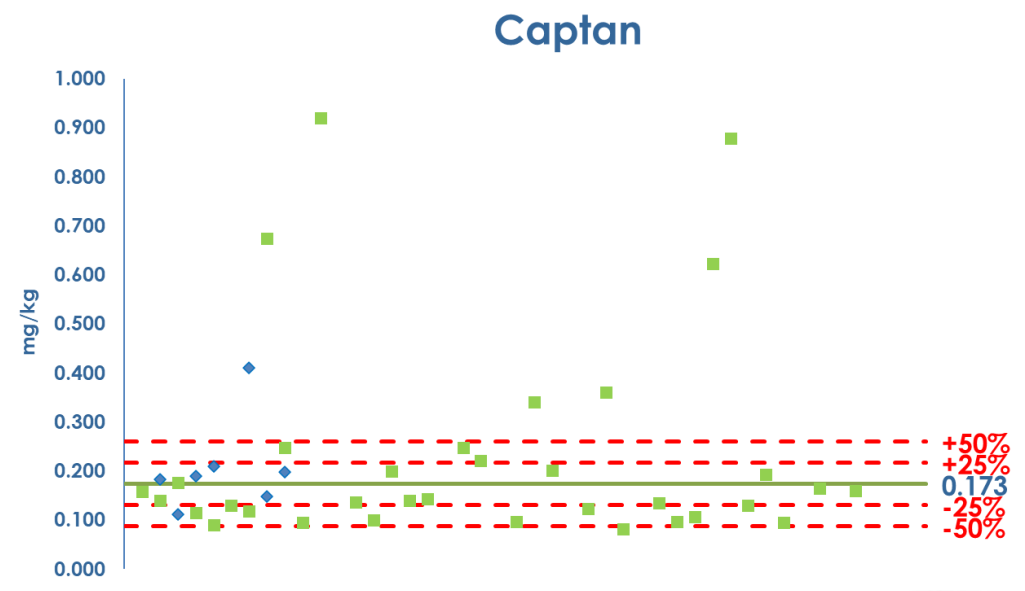


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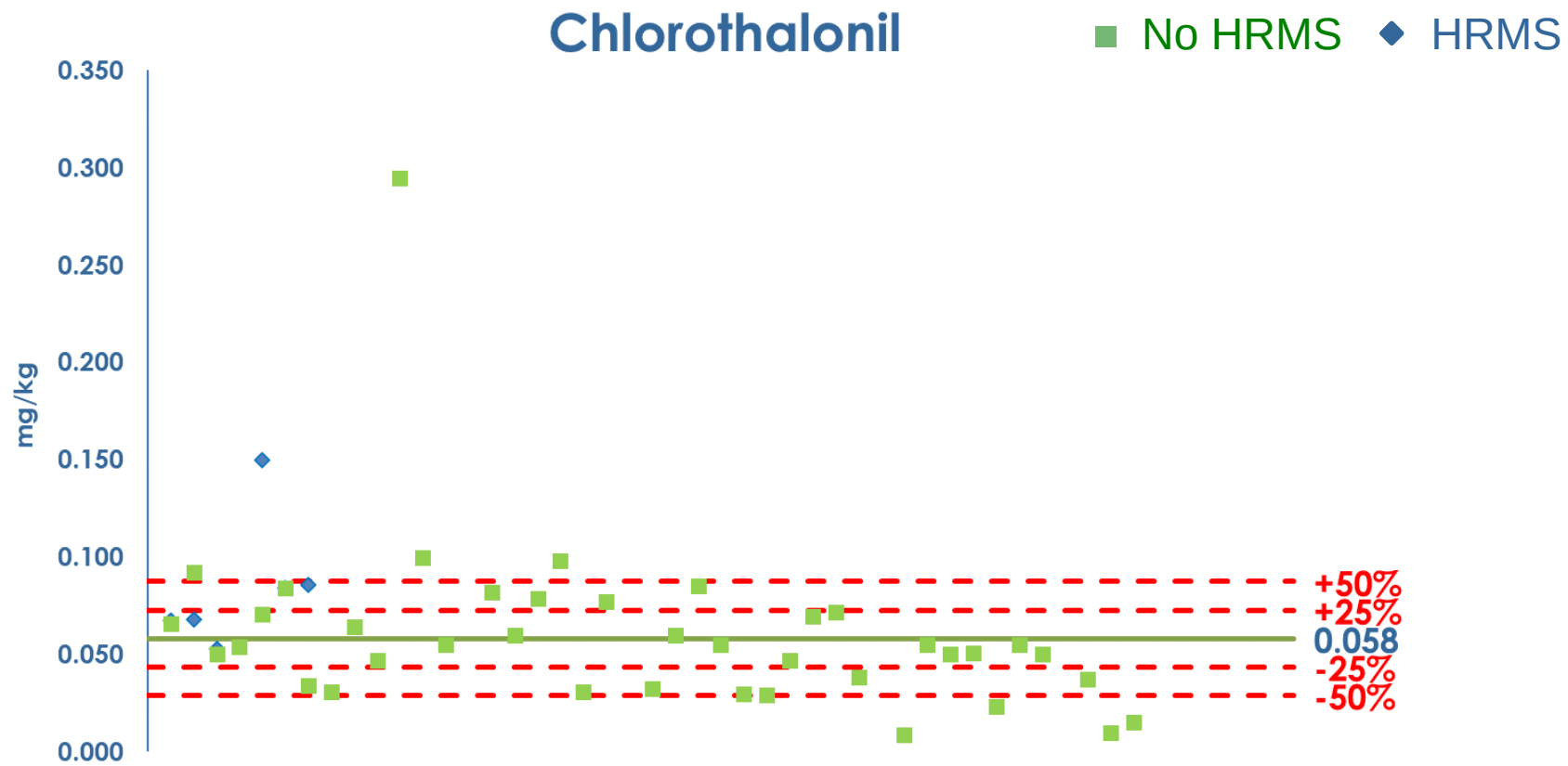


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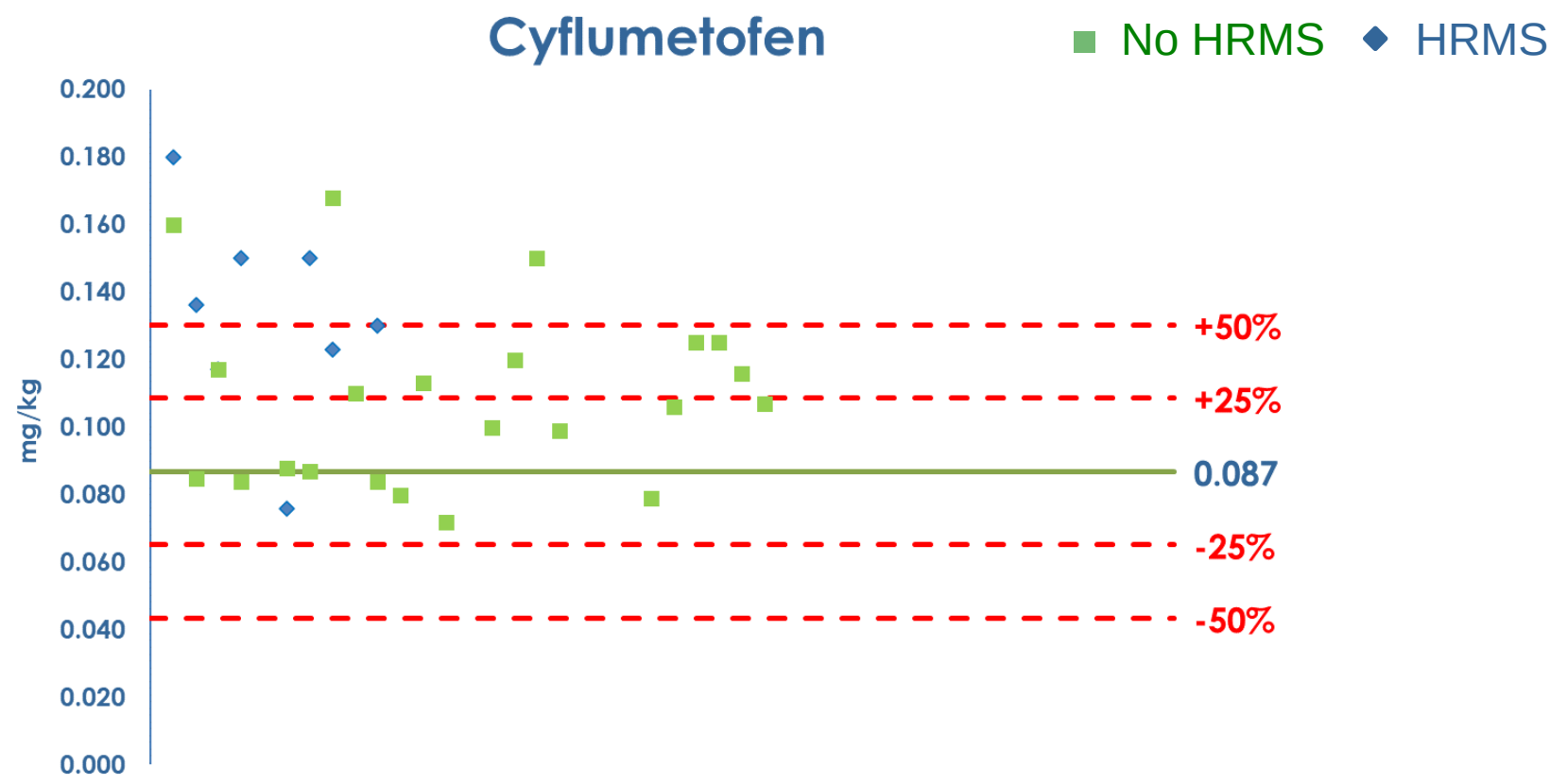
■ No HRMS ◆ HRMS



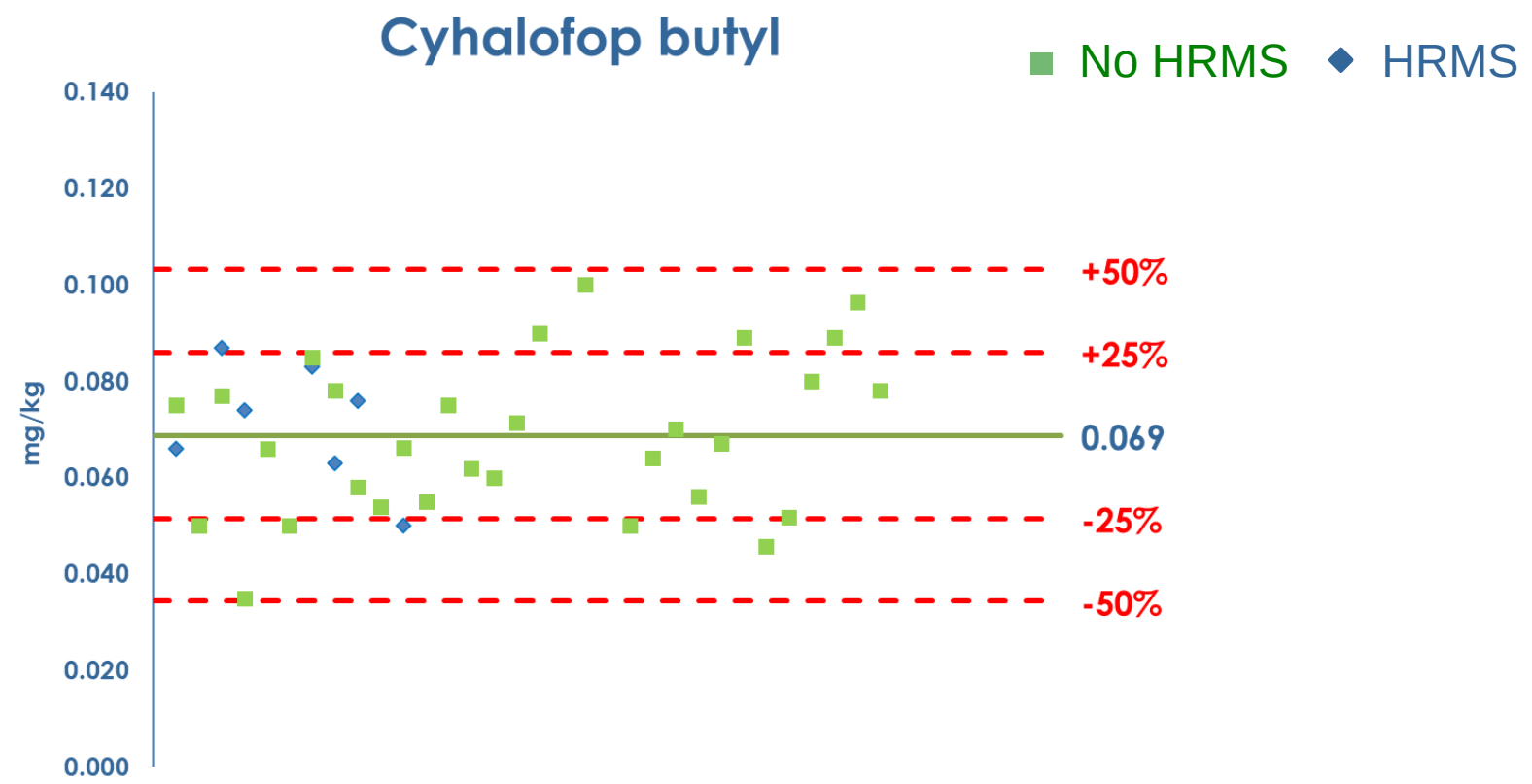
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Chlorothalonil	55	53	84	49	45	0.048	0.058	45.7



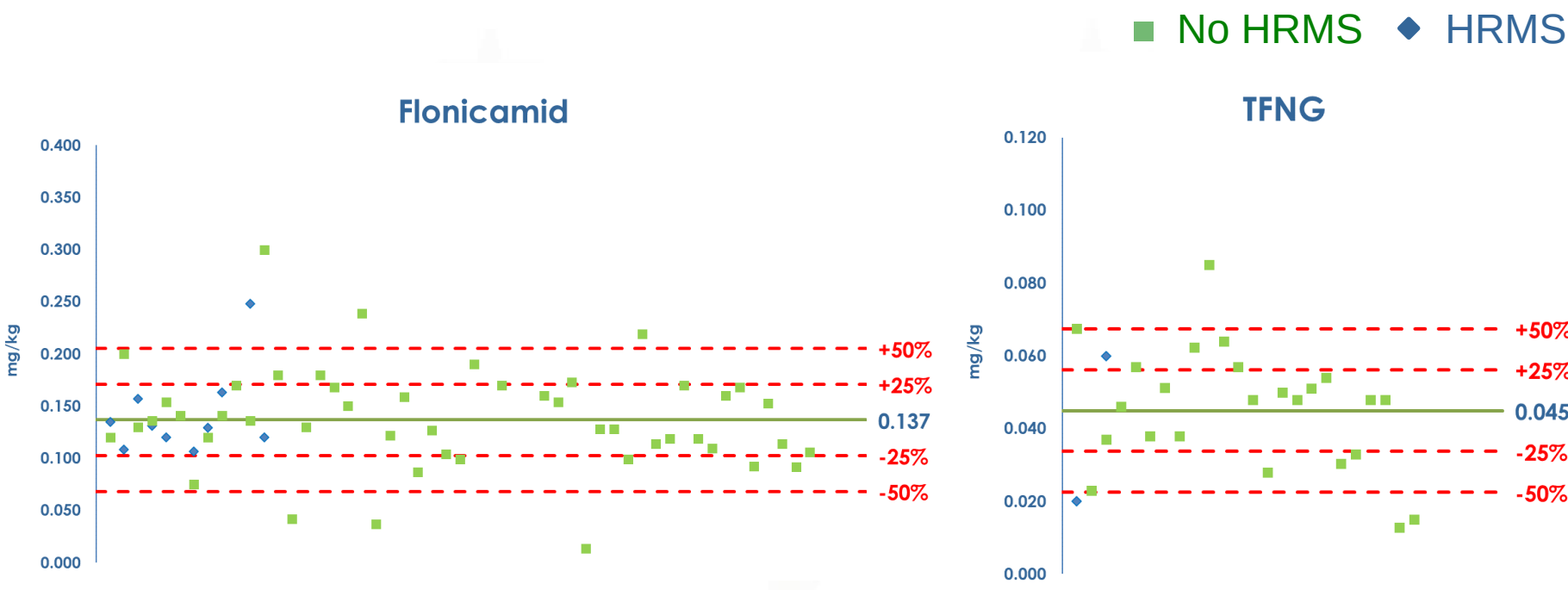
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Cyflumetofen	42	40	63	37	30	0.113	0.087	34.9



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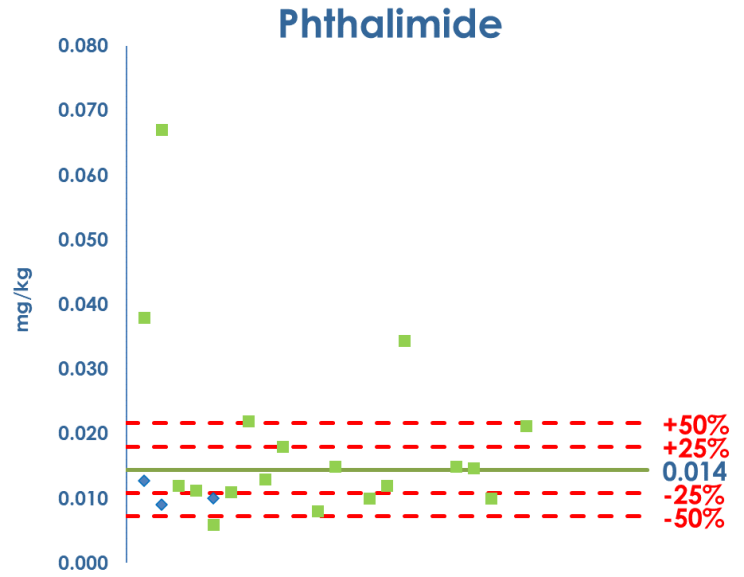
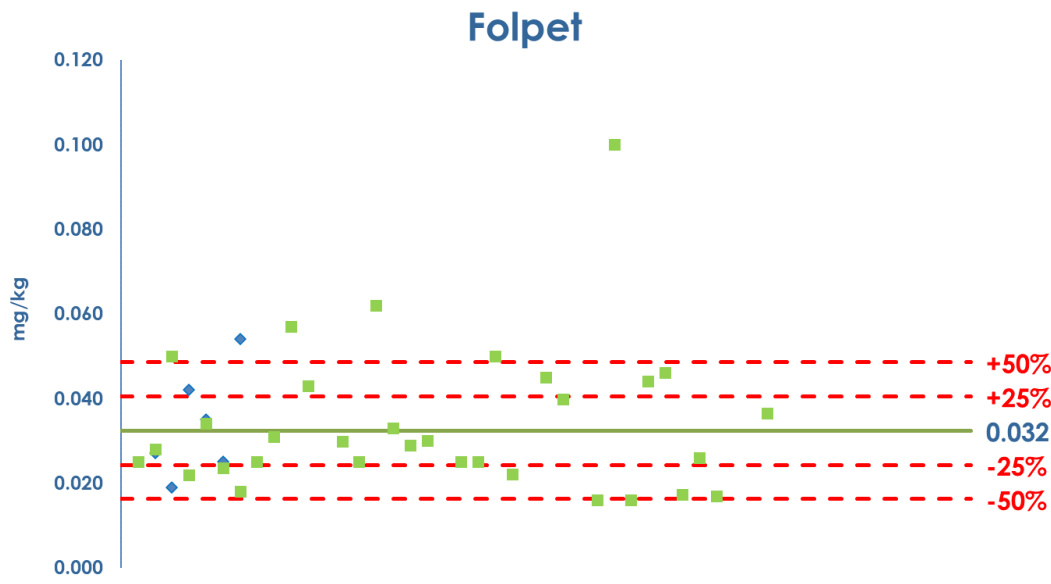


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TFNG	28	28	44	27	26	0.015	0.045	38.6



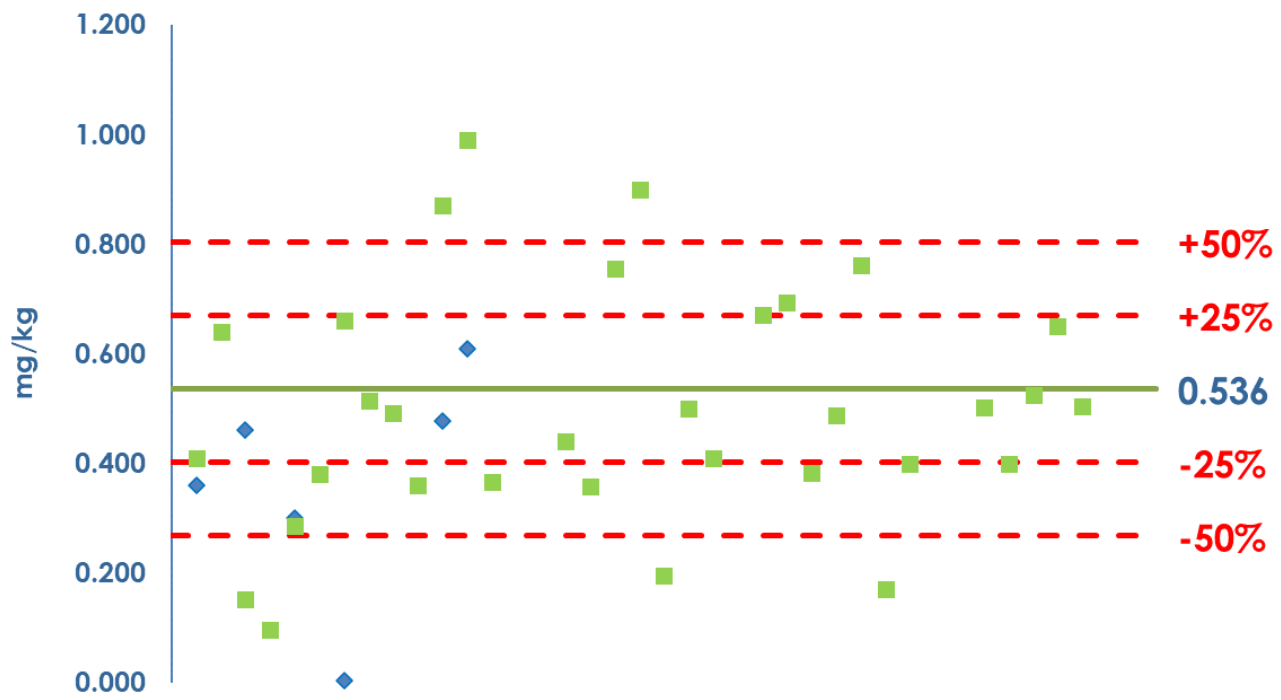
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Folpet	46	41	65	40	38	0.036	0.032	41.2
Phthalimide	28	24	38	23	21	NA	0.014	44.1

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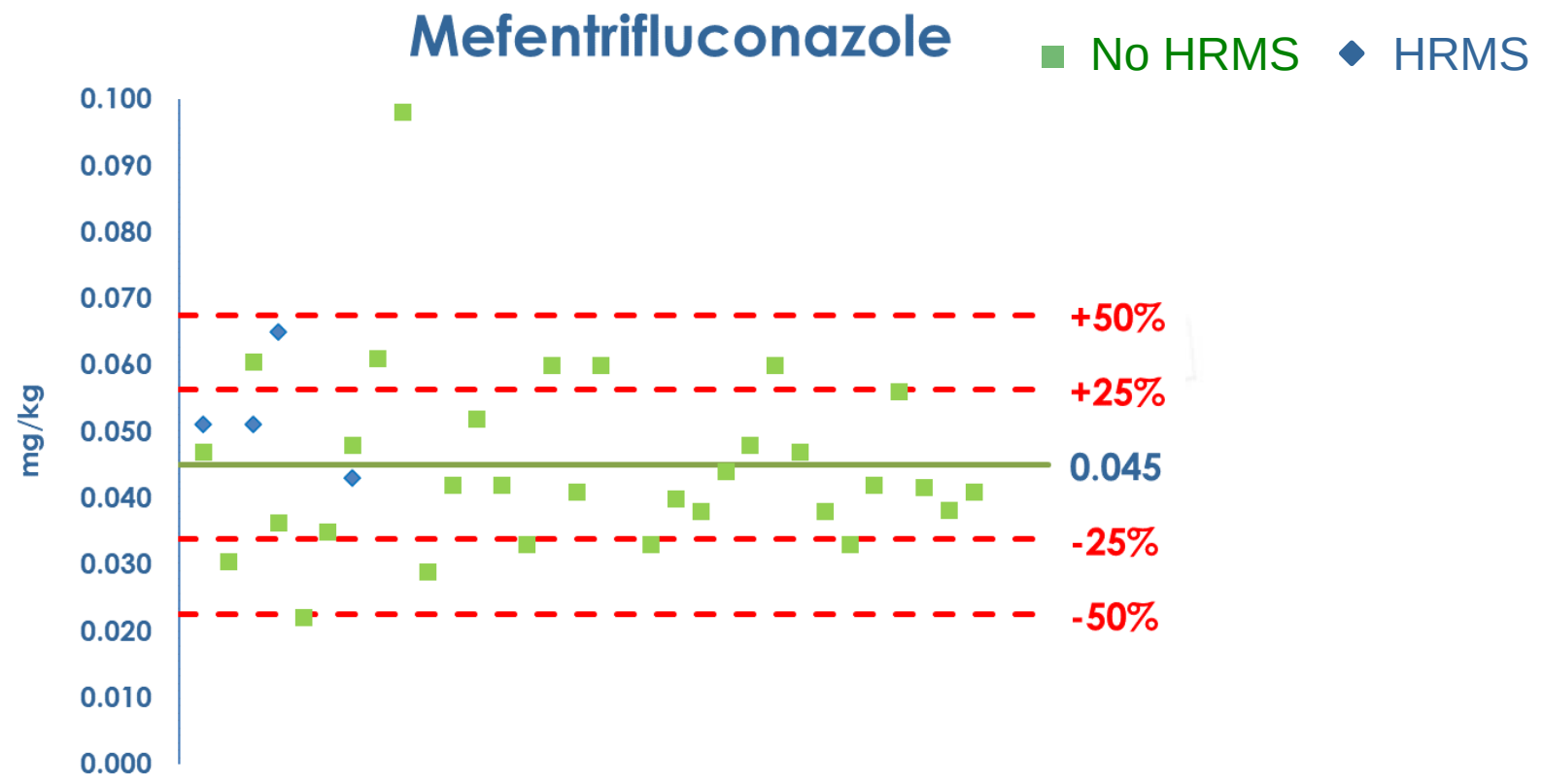


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Formetanate	54	52	83	49	44	0.475	0.536	53.6

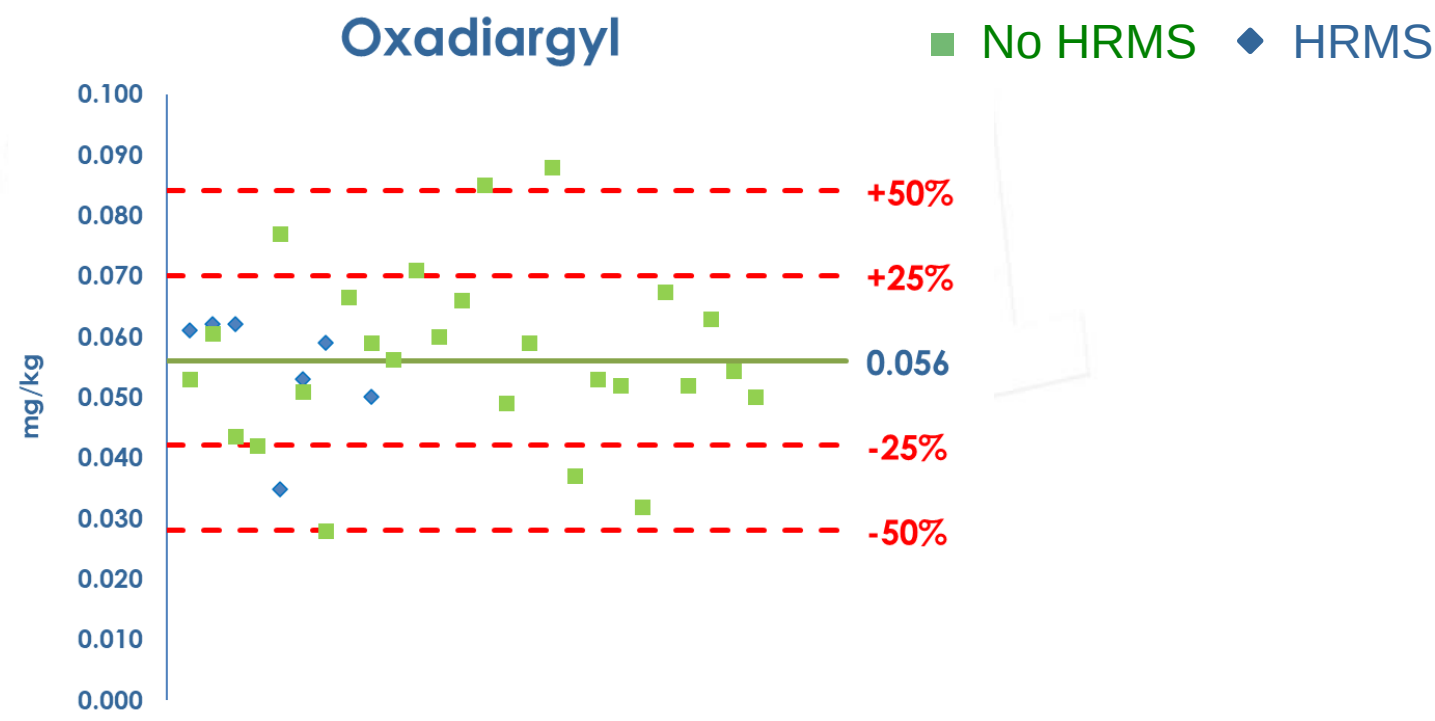
Formetanate



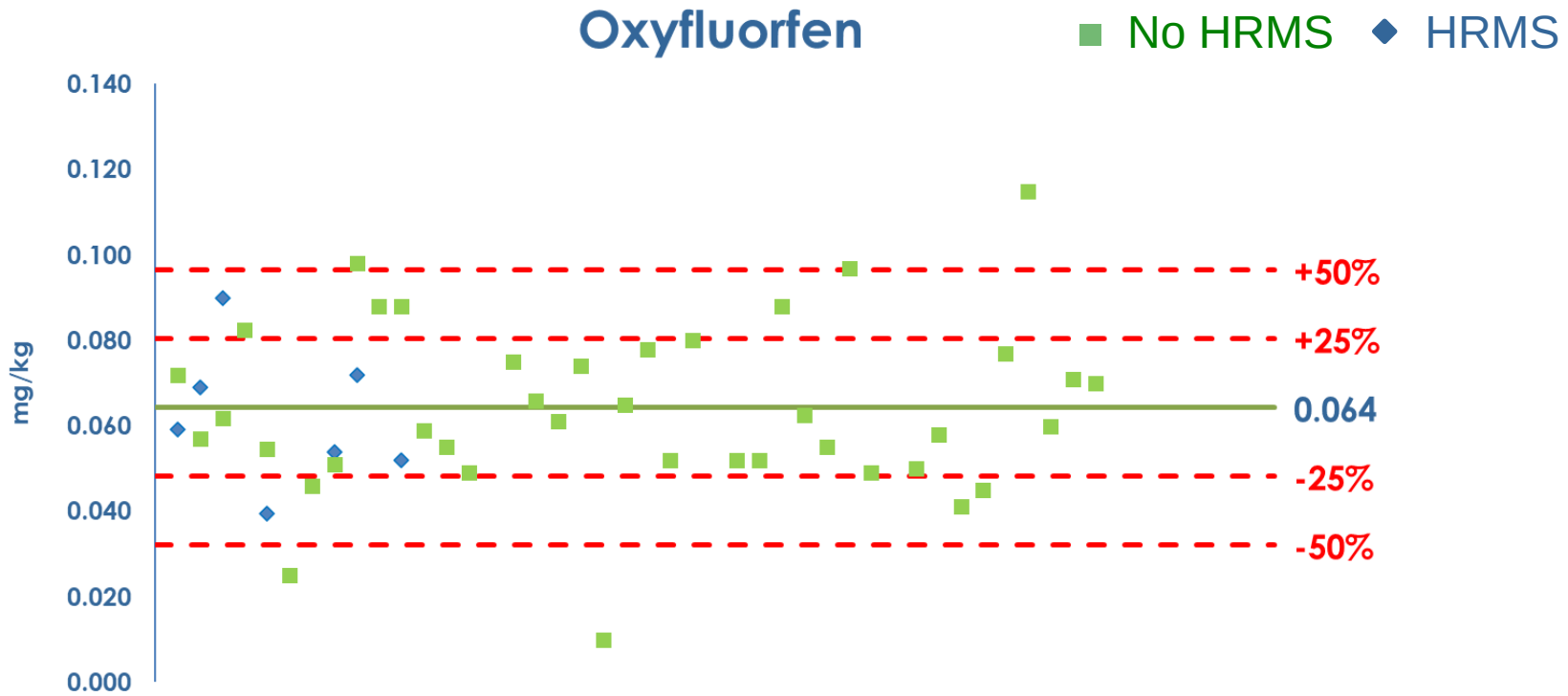
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Mefentrifluconazole	45	41	65	41	35	0.050	0.045	26.3



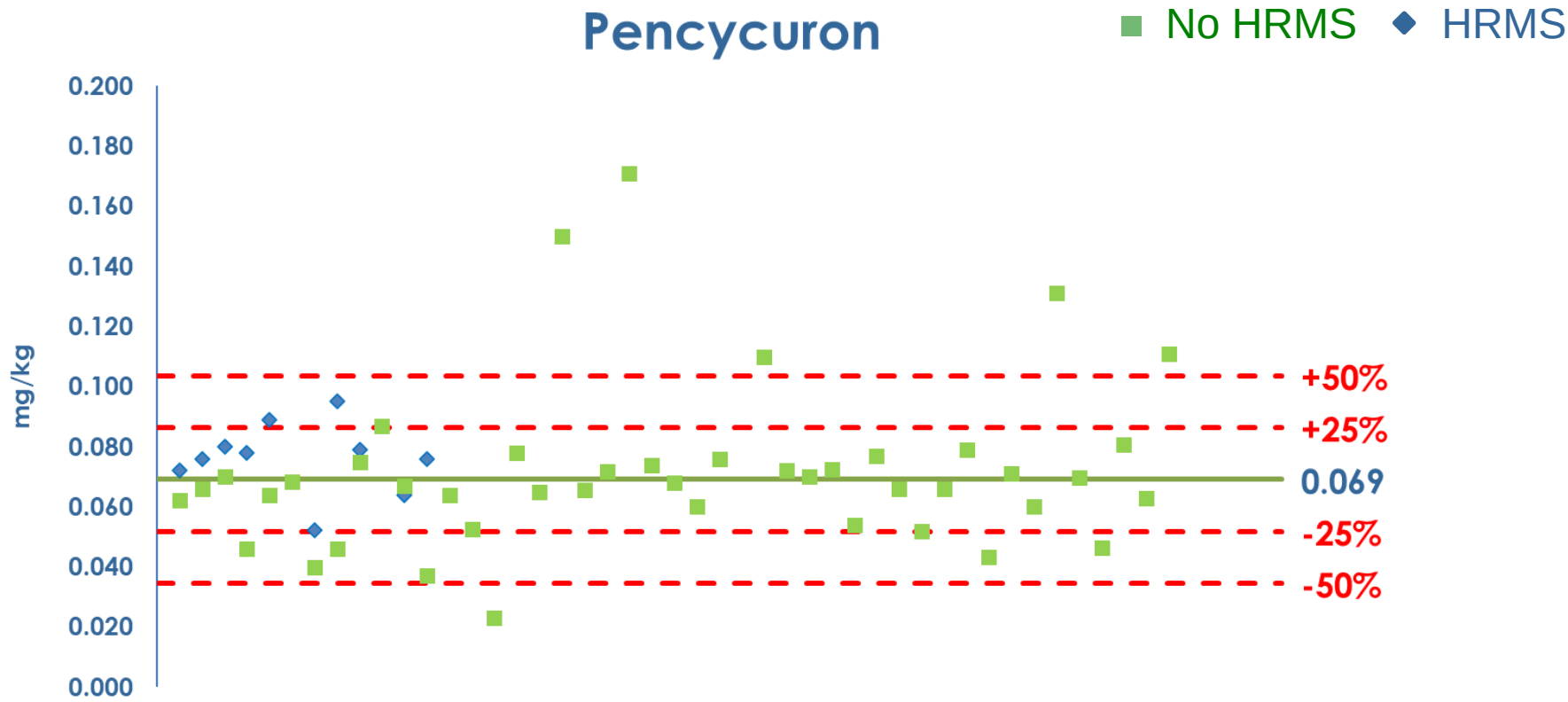
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Oxadiargyl	39	36	57	36	33	0.053	0.056	21.5



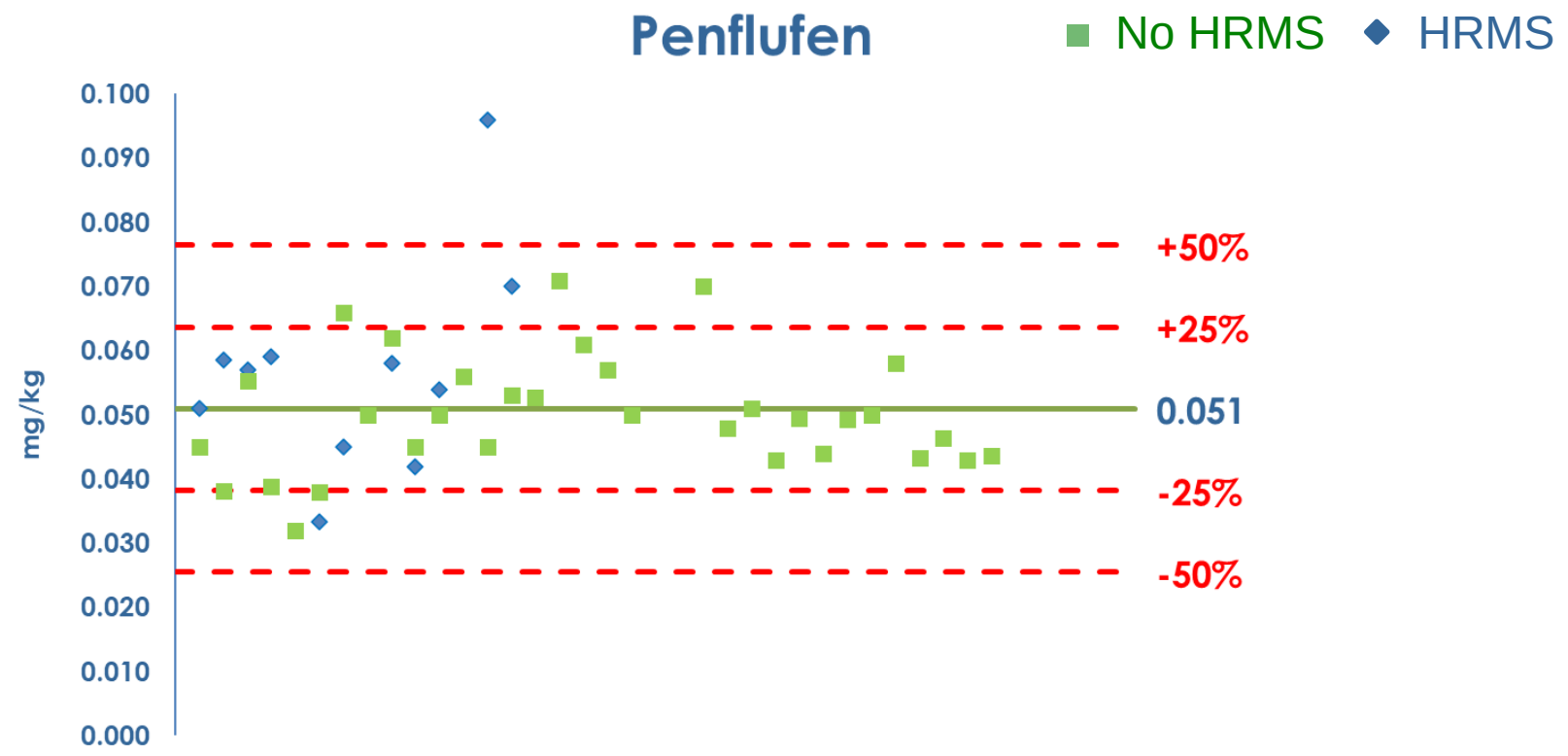
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Oxyfluorfen	59	54	86	52	47	0.073	0.064	28.7



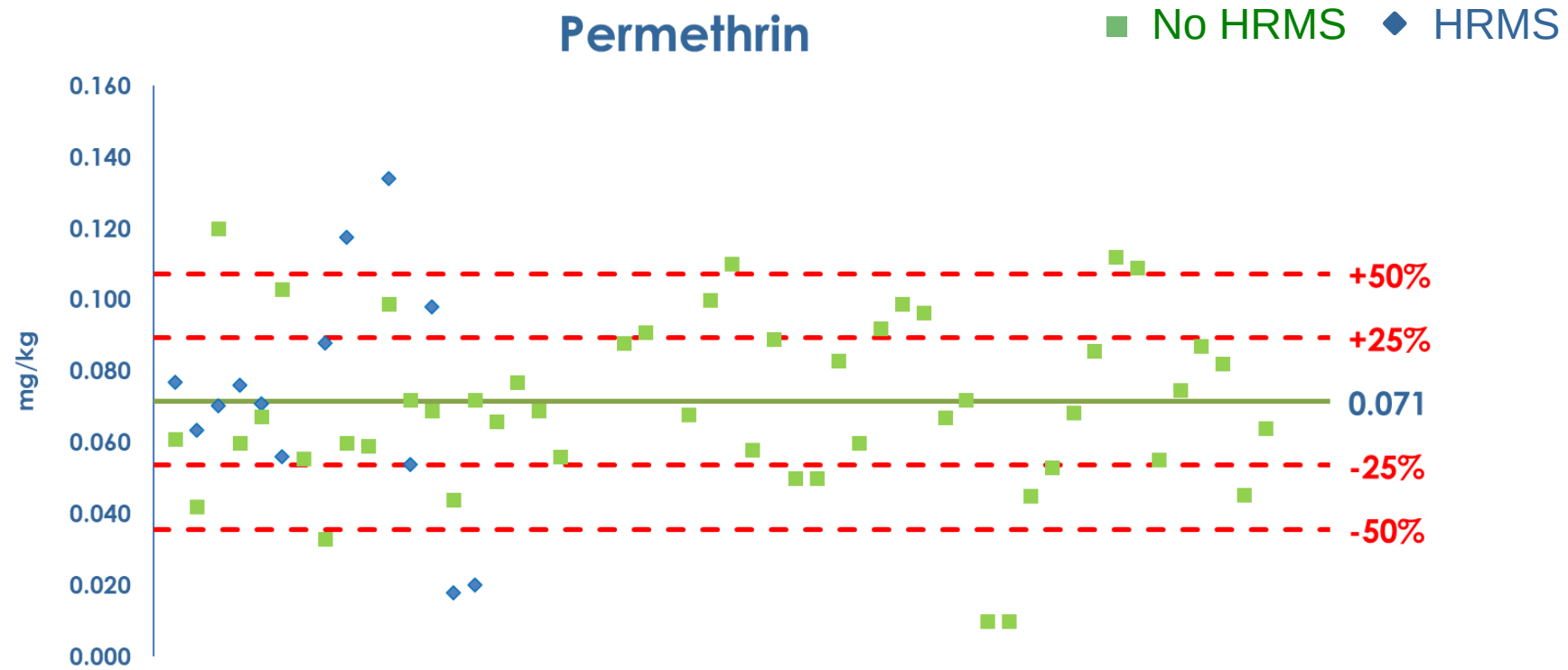
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Pencycuron	64	60	95	59	54	0.065	0.069	22.9



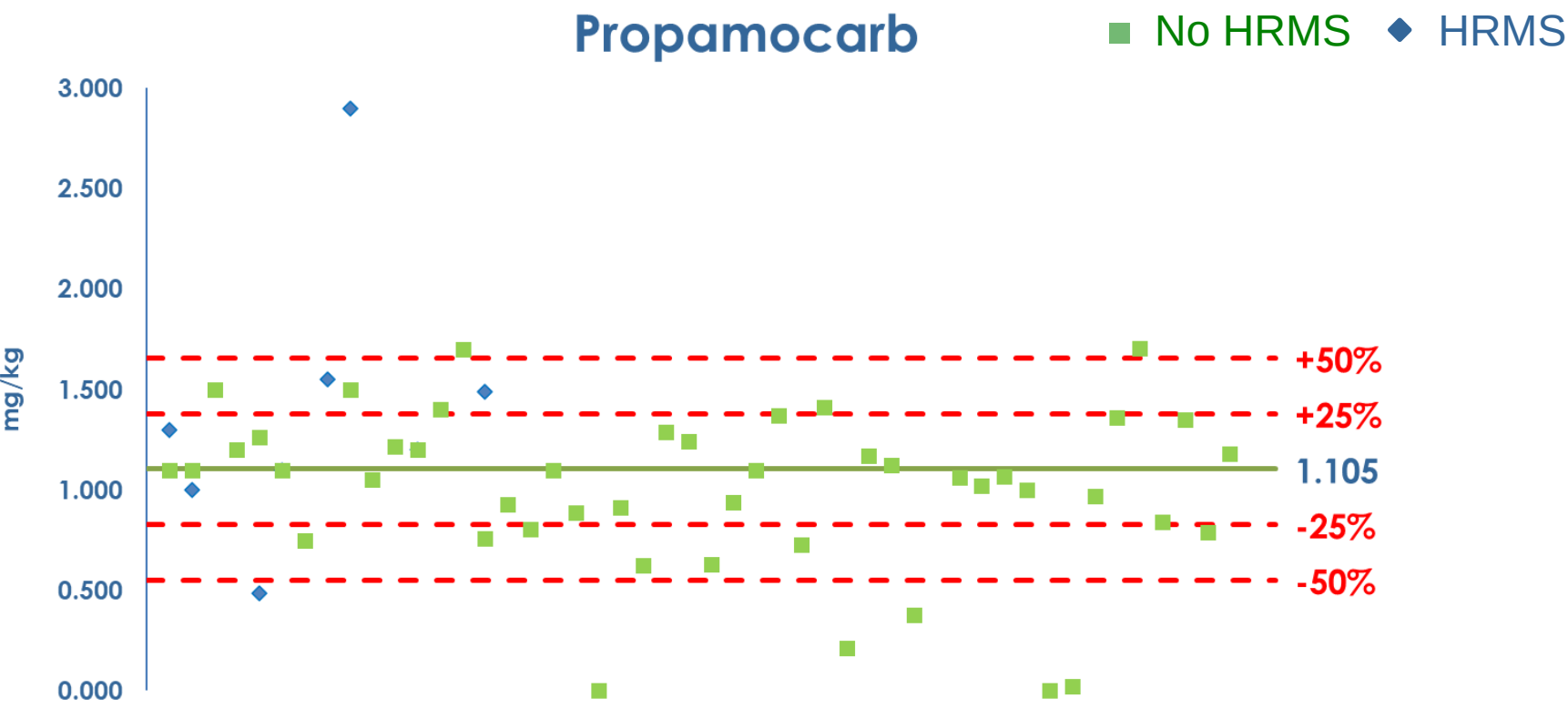
Pesticides	No of Detections	N° of Labs detected the pesticide	% of Labs detected the pesticide	No of Conc. Reported	No of Conc. Reported by EU/EFTA labs	Conc. Homogeneity test (mg/kg)	Robust mean (mg/kg)	CV (%)
Penflufen	52	46	73	47	43	0.054	0.051	19.1



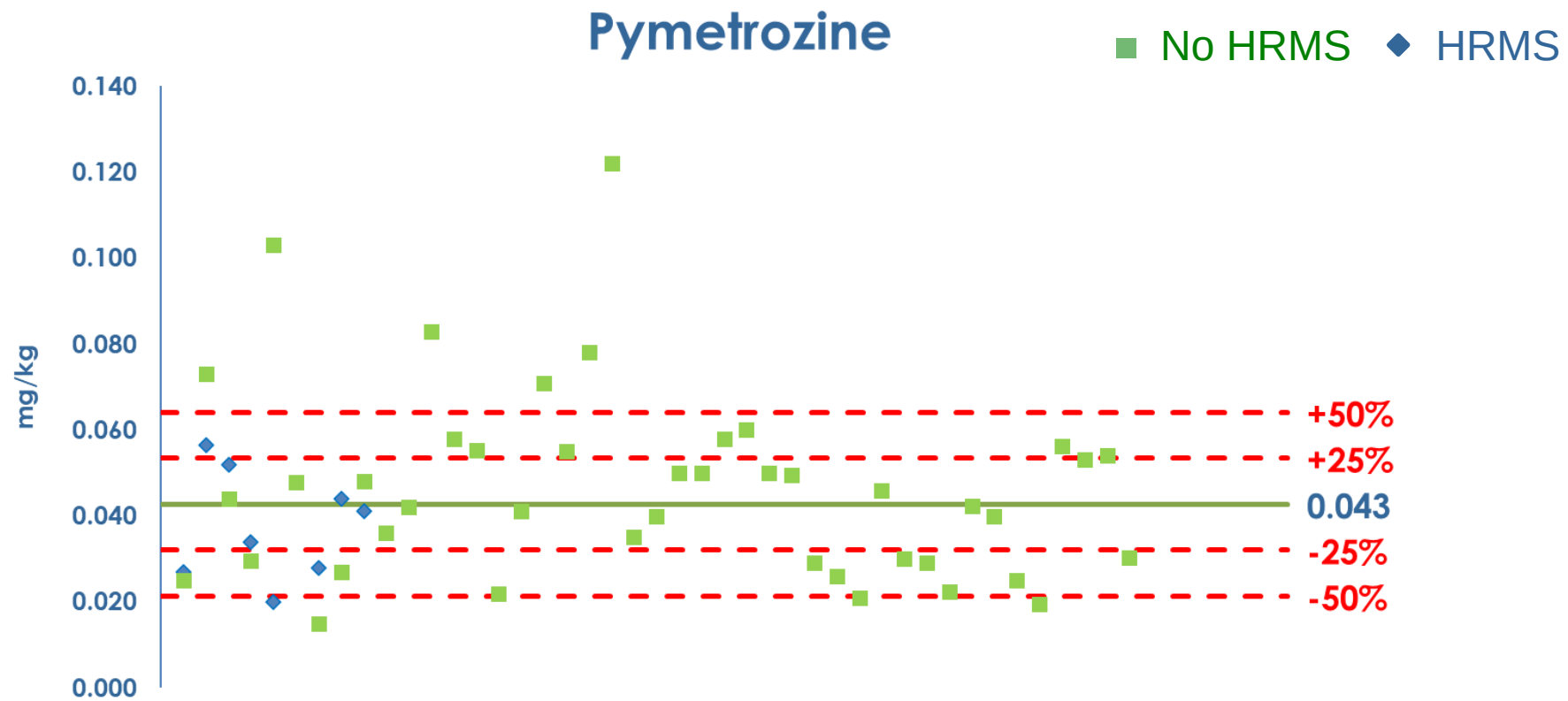
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Permethrin	73	62	98	67	62	0.062	0.071	34.4



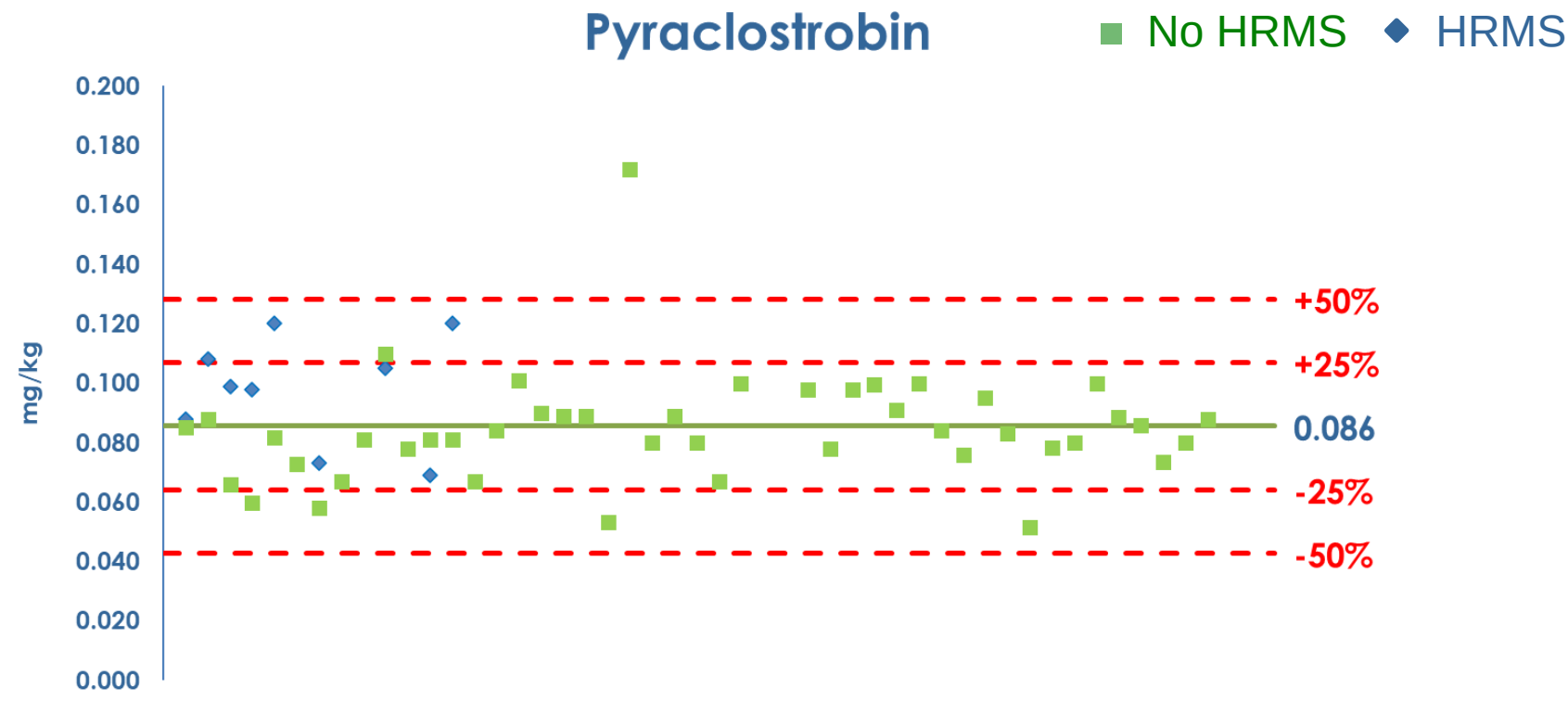
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Propamocarb	72	58	92	60	55	1.050	1.105	28.3



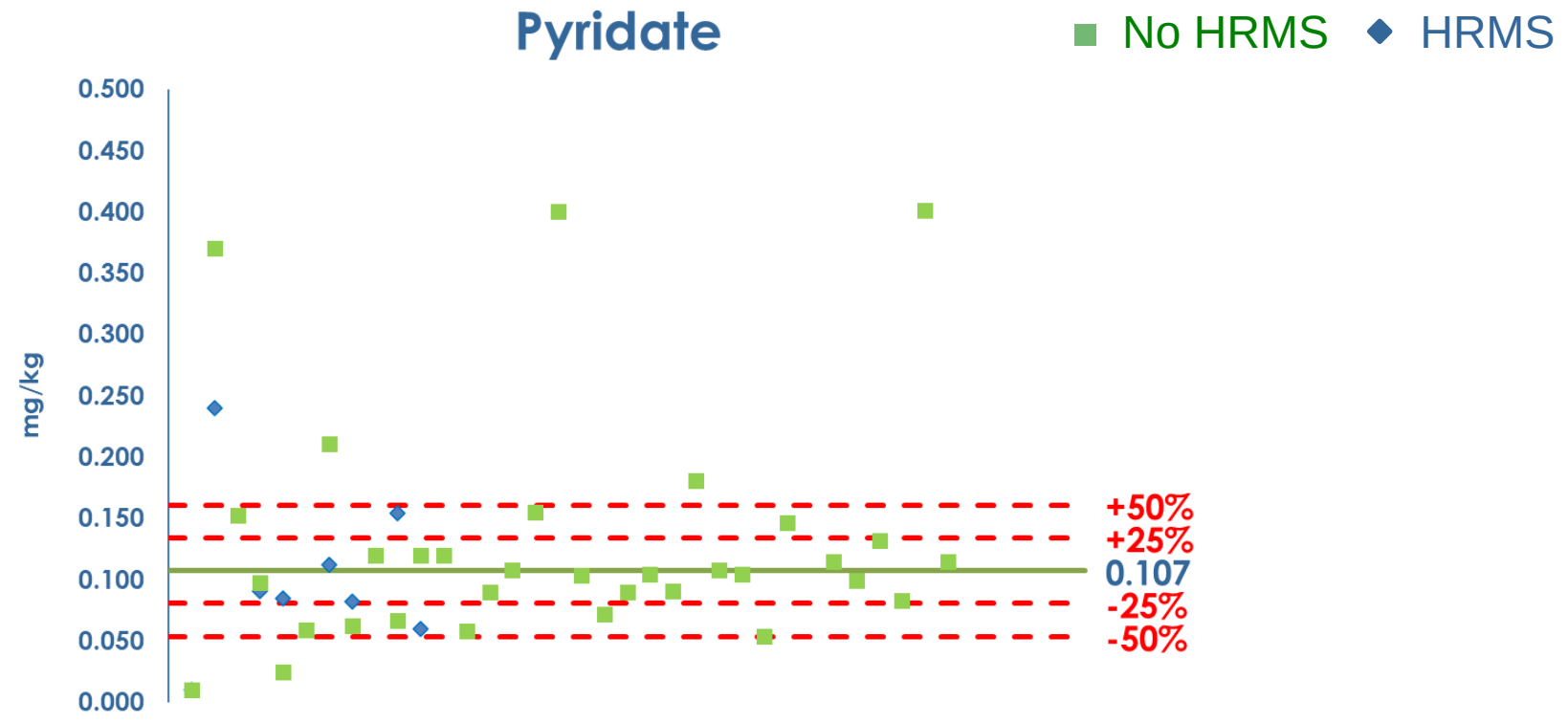
Pesticides	No of Detections	N° of Labs detected the pesticide	% of Labs detected the pesticide	No of Conc. Reported	No of Conc. Reported by EU/EFTA labs	Conc. Homogeneity test (mg/kg)	Robust mean (mg/kg)	CV (%)
Pymetrozine	56	54	86	54	51	0.030	0.043	41.0



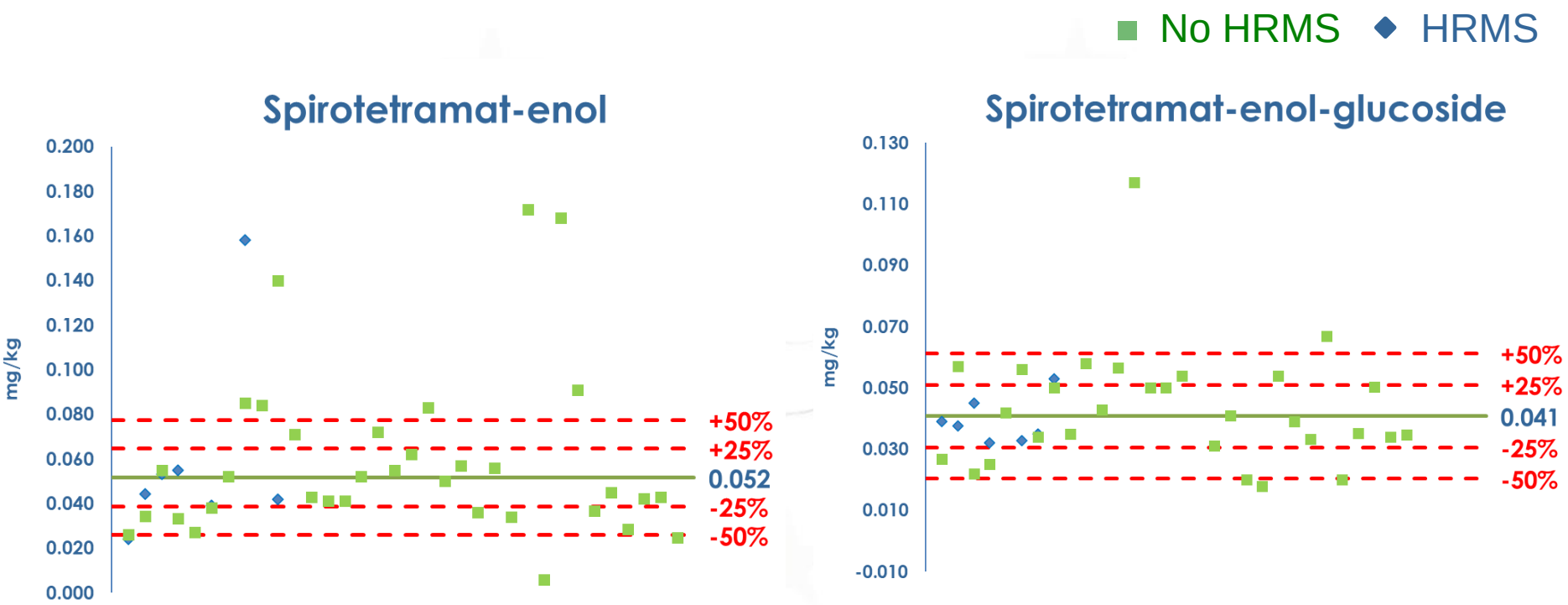
Pesticides	No of Detections	N° of Labs detected the pesticide	% of Labs detected the pesticide	No of Conc. Reported	No of Conc. Reported by EU/EFTA labs	Conc. Homogeneity test (mg/kg)	Robust mean (mg/kg)	CV (%)
Pyraclostrobin	66	61	97	59	54	0.092	0.086	17.9



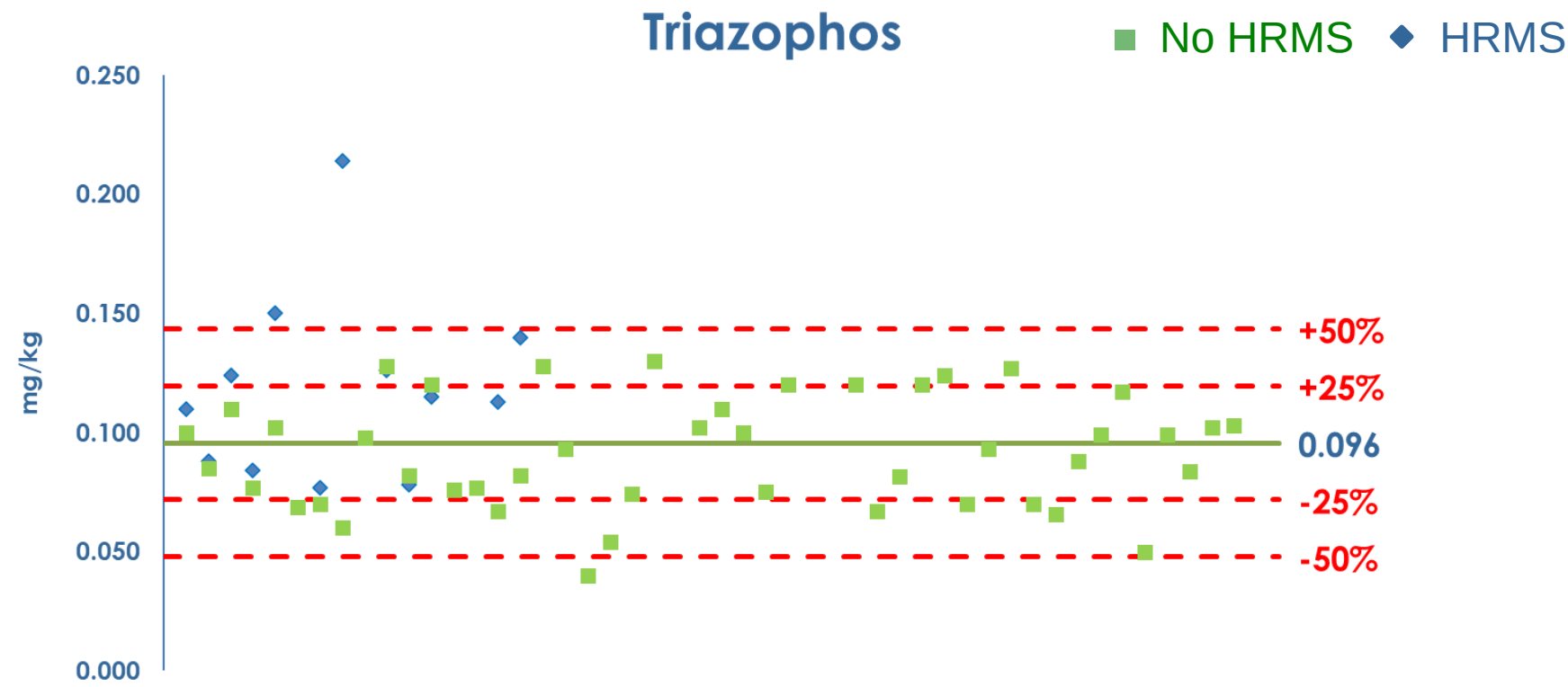
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Pyridate	50	45	71	46	41	0.075	0.107	46.4

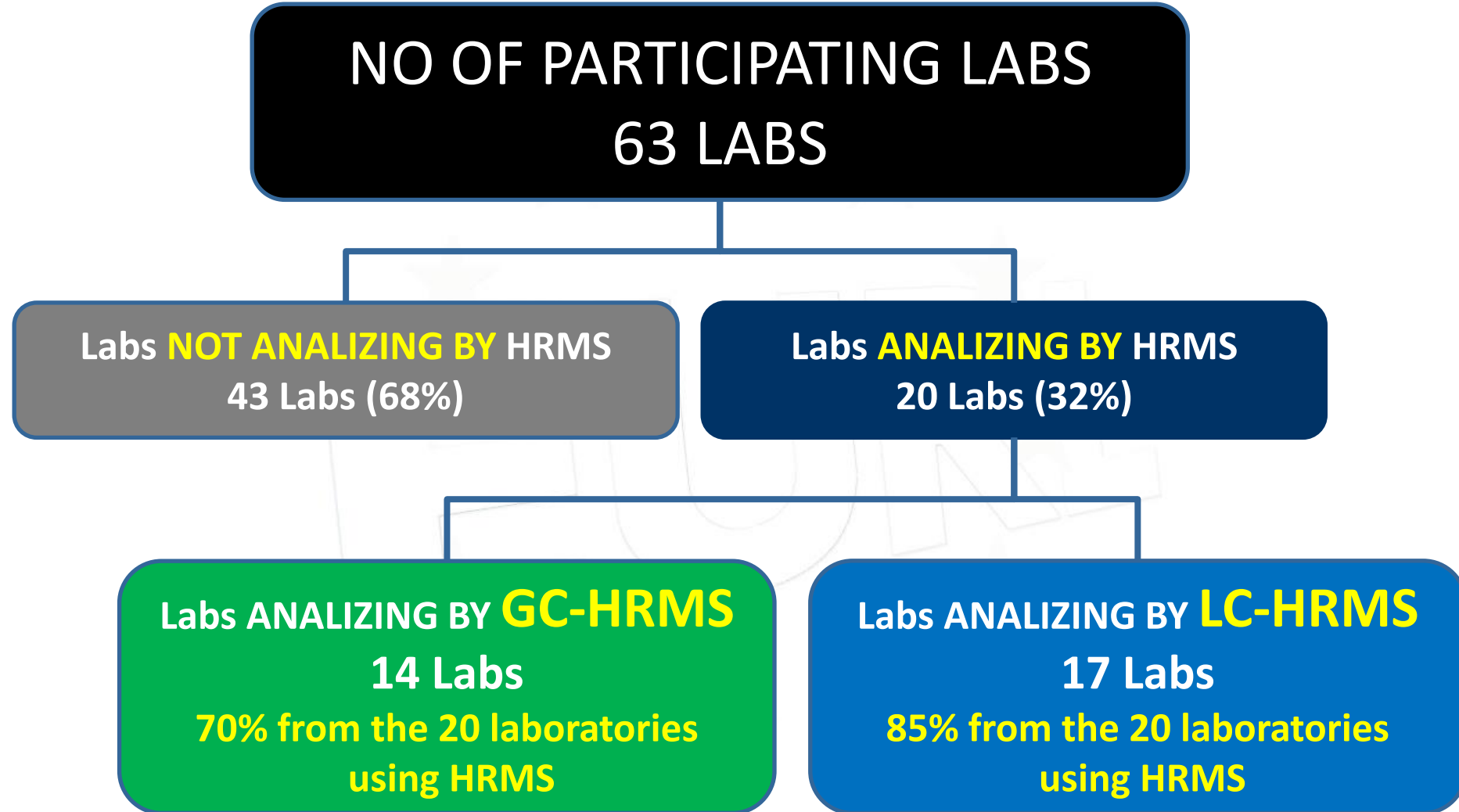


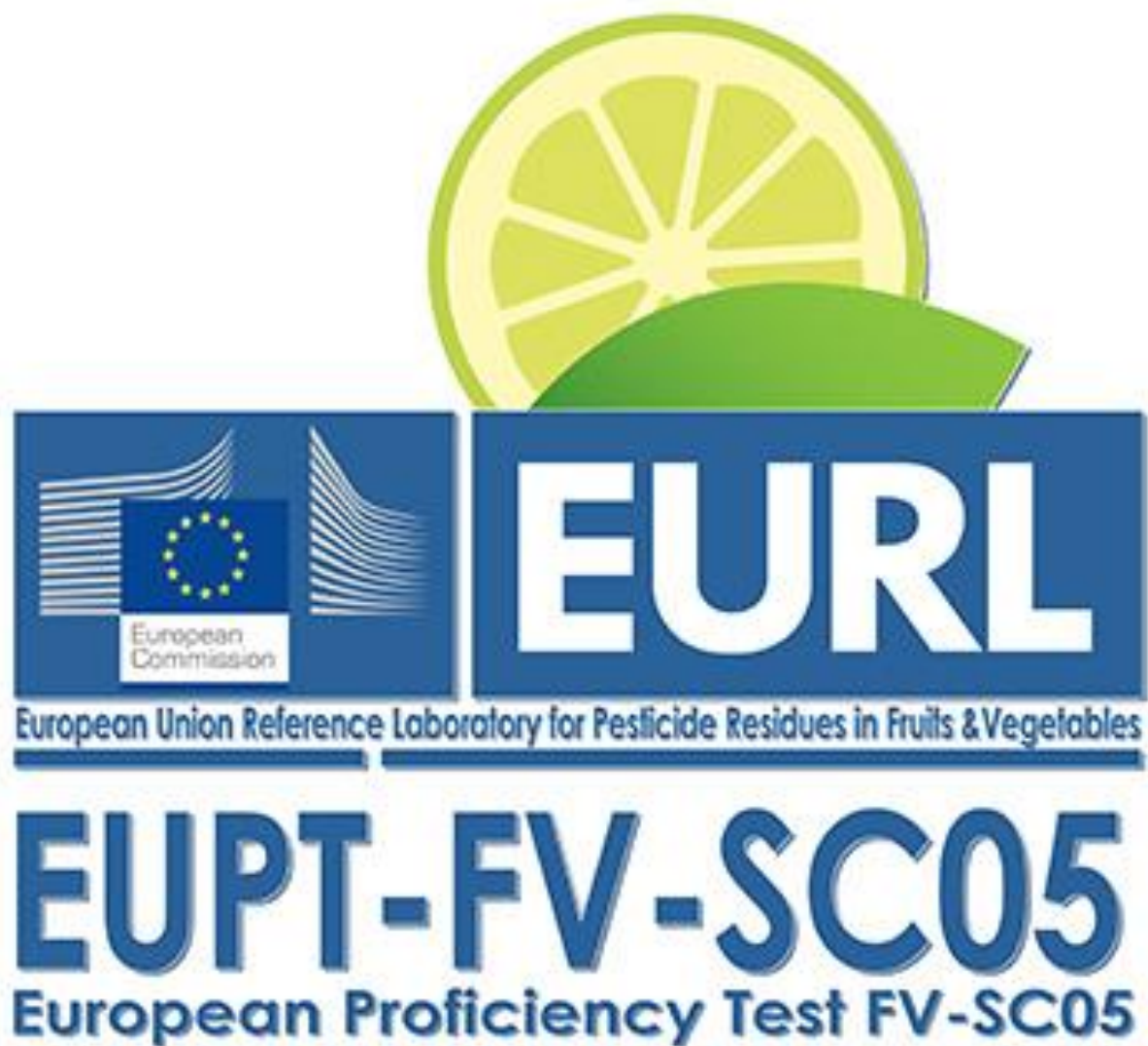
Pesticides	No of Detections	N° of Labs detected the pesticide	% of Labs detected the pesticide	No of Conc. Reported	No of Conc. Reported by EU/EFTA labs	Conc. Homogeneity test (mg/kg)	Robust mean (mg/kg)	CV (%)
Spirotetramat-enol	51	47	75	48	41	0.048	0.052	45.8
Spirotetramat-enol-glucoside	42	42	67	40	36	0.038	0.041	34.7



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Triazophos	69	61	97	62	58	0.110	0.096	27.9







EUPT-SC05

Results

EUPT-FV-SC05

European Proficiency Test FV-SC05



White dried beans



Target List

215 pesticides

Same as Target List FV23

Acephate	Chlorantraniliprole	Diazinon	Etofenprox	Fenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate)
Acetamiprid	Chlorfenapyr	Dichlofluanid	Etoxazole	Fipronil
Aclonifen	Chlorfenvinphos	Dichlorvos	Famoxadone	Fipronil sulfone
Acrinathrin	Chlorobenzilate	Dicloran	Fenamidone	Flonicamid
Aldicarb	Chlorothalonil	Dicofol (sum of p, p' and o,p' isomers)	Fenamiphos	Flubendiamide
Aldicarb Sulfone	Chlorpropham	Dieldrin	Fenamiphos sulfone	Fludioxonil
Aldicarb Sulfoxide	Chlorpyrifos	Diethofencarb	Fenamiphos sulfoxide	Flufenoxuron
Aldrin	Chlorpyrifos-methyl	Difenoconazole	Fenarimol	Fluopicolide
Ametoctradin	Clofentezine	Diflubenzuron	Fenbuconazole	Fluopyram
Azinphos-methyl	Clothianidin	Dimethoate	Fenhexamid	Fluquinconazole
Azoxystrobin	Cyantraniliprole	Dimethomorph (sum of isomers)	Fenitrothion	Flusilazole
Bifenthrin (sum of isomers)	Cyazofamid	Dimethylaminosulfotoluidide (DMST)	Fenoxycarb	Flutolanil
Biphenyl	Cyflufenamid: sum of cyflufenamid (Z-isomer) and its E-isomer	Diniconazole (sum of isomers)	Fenpropathrin	Flutriafol
Bitertanol (sum of isomers)	Cyfluthrin (cyfluthrin incl. other mixtures of constituent isomers (sum of isomers))	Diphenylamine	Fenpropidin	Fluxapyroxad
Boscalid	Cymoxanil	Endosulfan alpha	Fenpropimorph (sum of isomers)	Formetanate (expressed as formetanate (hydrochloride))
Bromopropylate	Cypermethrin (cypermethrin incl. other mixtures of constituent isomers (sum of isomers))	Endosulfan beta	Fenpyrazamine	Fosthiazate
Bromuconazole (sum of diastereoisomers)	Cyproconazole	Endosulfan sulfate	Fenpyroximate	Hexaconazole
Bupirimate	Cyprodinil	EPN	Fenthion	Hexythiazox
Buprofezin	Deltamethrin (cis-deltamethrin)	Epoxiconazole	Fenthion oxon	Imazalil
Cadusafos	Demeton-S-methylsulfone	Ethion	Fenthion oxon sulfone	Imidacloprid
Carbaryl		Ethirimol	Fenthion oxon sulfoxide	
Carbendazim		Ethoprophos	Fenthion sulfone	
Carbofuran			Fenthion sulfoxide	
Carbofuran-3-hydroxy				



Target List

215 pesticides

Same as Target List FV23

Indoxacarb (sum of indoxacarb and its R enantiomer)	Methoxyfenozide	Pirimiphos-methyl	Spinosad (sum of spinosyn A and spinosyn D, expr. as spinosad)	Thiamethoxam
Iprodione	Metrafenone	Prochloraz (only parent compound)	Spirodiclofen	Thiodicarb
Iprovalicarb	Monocrotophos	Procymidone	Spiromesifen	Thiophanate-methyl
Isocarbophos	Myclobutanyl	Profenofos	Spirotetramat	Tolclofos-methyl
Isofenphos-methyl	Omethoate	Propamocarb (only parent compound)	Spirotetramat metabolite BY108330 enol-glucoside	Tolyfluanid
Isoprothiolane	Orthophenylphenol (Free compound only)	Propargite	Spirotetramat metabolite BY108330-enol	Triadimefon
Kresoxim-methyl	Oxadixyl	Propiconazole (sum of isomers)	Spirotetramat metabolite BY108330-ketohydroxy	Triadimenol (any proportion of constituent isomers)
Lambda-Cyhalothrin	Oxamyl	Propyzamide	Spirotetramat metabolite BY108330-monohydroxy	Triazophos
Linuron	Oxydemeton-methyl	Proquinazid	Spiroxamine (sum of isomers)	Trichlorfon
Lufenuron (any proportion of constituent isomers)	Paclobutrazole	Prosulfocarb	Sulfoxaflor (sum of isomers)	Tricyclazole
Malaoxon	Parathion-methyl	Prothioconazole (Prothioconazole-desthio) (sum of isomers)	Tau-Fluvalinate	Trifloxystrobin
Malathion	Parathion-ethyl	Prothiofos	Tebuconazole	Triflumizole
Mandipropamid	Pencycuron	Pymetrozine	Tebufenozide	Triflumizole metabolite (FM-6-1)
Mepanipyrim	Pendimethalin	Pyraclostrobin	Tebufenpyrad	Triflumuron
Metaflumizone (sum of E- and Z- isomers)	Permethrin (sum of isomers)	Pyridaben	Teflubenzuron	Trifluralin
Metalaxyl and metalaxyl-M	Phenthoate	Pyridalyl	Tefluthrin	Triticonazole
Methamidophos	Phosalone	Pyrimethanil	Terbutylazine	Vinclozolin (only parent compound)
Methidathion	Phosmet	Pyriproxyfen	Tetraconazole	Zoxamide
Methiocarb	Phosmet oxon	Quinoxifen	Tetradifon	
Methiocarb sulfone	Phoxim	Spinetoram (XDE-175)	Thiabendazole	
Methiocarb sulfoxide	Pirimicarb		Thiacloprid	
Methomyl	Pirimicarb-desmethyl			

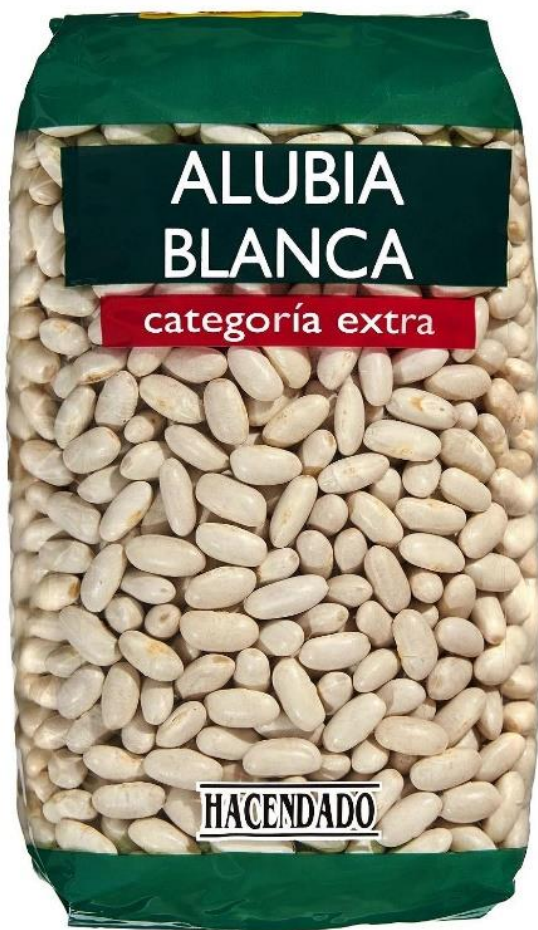
EUPT-SC05 CALENDAR

ACTIVITY	DATE
Registration period	26 th October 2021-15 th November 2021
Specific Protocol published on the Web site.	15 th November 2021 at the latest
Sample distribution.	29 th November 2021
Deadline for receiving results	10 th January 2022
Preliminary Report: (containing preliminary assigned values and z scores)	February 2022
Final Report distributed to the Laboratories.	August 2022



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Blank dried white beans
were bought in a
supermarket in Almería
Origin: Argentina

White beans were spiked with a mixture of analytical standards in solvent



The solvent evaporated in the fume hood



Once dried, the
beans were mixed
well





And they were milled
in the food processor
(Thermomix) and
homogeneised by
hand stirring



Homogeneity

The homogeneity in the treated sample was studied using the 2006 Harmonised Protocol.

Stability

1st Analysis - prior to the sample shipment

2nd Analysis - after the deadline for reporting results

3rd Analysis - reproducing the delivery conditions that the samples experienced during 48 hours

All the pesticides passed the homogeneity and stability tests

Participation

Total No. of Labs = 60
EU/EFTA Labs = 56
Other countries Labs = 4

Total No. of Countries = 21
EU/EFTA countries = 18
Other countries = 3

Participation

Member State	No. Labs
Austria	1
Belgium	3
Bulgaria	1
Croatia	2
Cyprus	1
Estonia	1
Finland	1
France	2
Germany	9
Greece	1
Ireland	1
Italy	6
Lithuania	1
Luxembourg	1
Netherlands	1
Norway	1
Poland	5
Romania	2
Slovakia	1
Spain	15
Sweden	1
Austria	1

Non-EU/EFTA	No. Labs
Peru	2
UK	1
Uruguay	1

Results

Assigned values

	Robust Mean $\bar{X}^*$ (mg/kg)
Dichlorvos	0,027
Dimethoate	0,033
Pendimethalin	0,034
Pyrimethanil	0,035
Azoxystrobin	0,036
Aclonifen	0,039
Tebuconazole	0,044
Carbaryl	0,049
Cyprodinil	0,051
Boscalid	0,058
Fenitrothion	0,060
Carbendazim	0,064
Trichlorfon	0,068
Acephate	0,072
Chlorpyrifos	0,076
Fludioxonil	0,078
Imidacloprid	0,081



Assigned values

< 0.1 mg/kg

	Robust Mean $\bar{X}^*$ (mg/kg)
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Assigned values and CVs

EU/EFTA Laboratories

	MRRL (mg/kg)	Robust Mean (mg/kg)	CV (%)	Uncertainty (mg/kg)
Acephate	0,01	0,072	22,6	0,003
Aclonifen	0,01	0,039	22,8	0,002
Azoxystrobin	0,01	0,036	18,9	0,001
Boscalid	0,01	0,058	19,2	0,002
Carbaryl	0,005	0,049	17,9	0,001
Carbendazim	0,01	0,064	29,4	0,003
Chlorpyrifos	0,005	0,076	15,2	0,002
Cyprodinil	0,01	0,051	13,8	0,001
Dichlorvos ⓘ	0,005	0,027	43,2	0,002
Dimethoate	0,003	0,033	15,5	0,001
Fenitrothion	0,01	0,060	22,3	0,002
Fludioxonil	0,01	0,078	17,2	0,002
Imidacloprid	0,01	0,081	17,7	0,002
Pendimethalin	0,01	0,034	14,3	0,001
Pyrimethanil	0,01	0,035	12,8	0,001
Tebuconazole	0,01	0,044	11,9	0,001
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ⓘ For information
purposes



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① For information purposes



Assigned values and CVs

EU/EFTA Laboratories

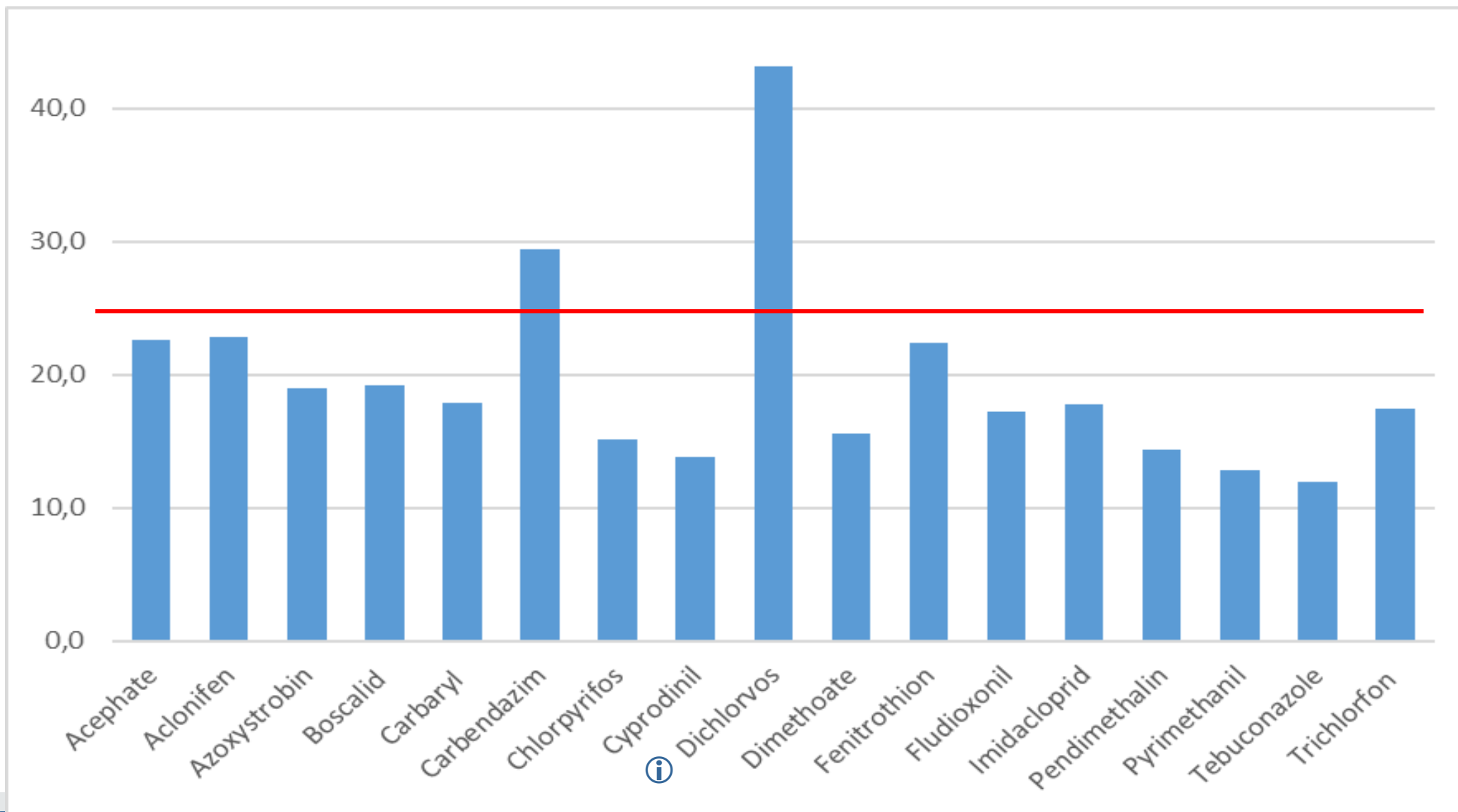
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Average CV (%): 19,5%

① For information
purposes



Dispersion of Results



25%
FFP-RSD



Reported, analysed and not analysed results

	No. of Reported Results	No. of False Negative Results	No. of Not Analysed Results	Percentage of Labs Reporting Results (out of 56)
Acephate	50	2	4	89
Aclonifen	38	0	18	68
Azoxystrobin	53	2	1	95
Boscalid	54	0	2	96
Carbaryl	53	0	3	95
Carbendazim	52	0	4	93
Chlorpyrifos	55	1	0	98
Cyprodinil	53	2	1	95
Dichlorvos ^①	39	10	7	70
Dimethoate	54	1	1	96
Fenitrothion	53	0	3	95
Fludioxonil	52	2	2	93
Imidacloprid	53	0	3	95
Pendimethalin	54	1	1	96
Pyrimethanil	55	0	1	98
Tebuconazole	54	1	1	96
Trichlorfon	44	3	9	79



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EU/EFTA Laboratories

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^① For information purposes

EUPF-FV-S



Reported, analysed and not analysed results

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Pyrimethanil	55	0	1	98
Tebuconazole	54	1	1	96
Trichlorfon	44	3	9	79

z-Scores



z score classification

EU/EFTA Laboratories

	Robust Mean (mg/kg)	% Acceptable z scores	% Questionable z scores	% Unacceptable z scores
Acephate	0,072	88	6	6
Aclonifen	0,039	97	0	3
Azoxystrobin	0,036	95	0	5
Boscalid	0,058	96	2	2
Carbaryl	0,049	96	4	0
Carbendazim	0,064	88	6	6
Chlorpyrifos	0,076	93	0	7
Cyprodinil	0,051	95	0	5
Dichlorvos ^①	0,027	61	8	31
Dimethoate	0,033	96	2	2
Fenitrothion	0,060	92	6	2
Fludioxonil	0,078	96	2	2
Imidacloprid	0,081	98	0	2
Pendimethalin	0,034	94	0	6
Pyrimethanil	0,035	96	4	0
Tebuconazole	0,044	96	2	2
Trichlorfon	0,068	95	5	0

① For
information
purposes



z score classification

EU/EFTA Laboratories

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① For
information
purposes



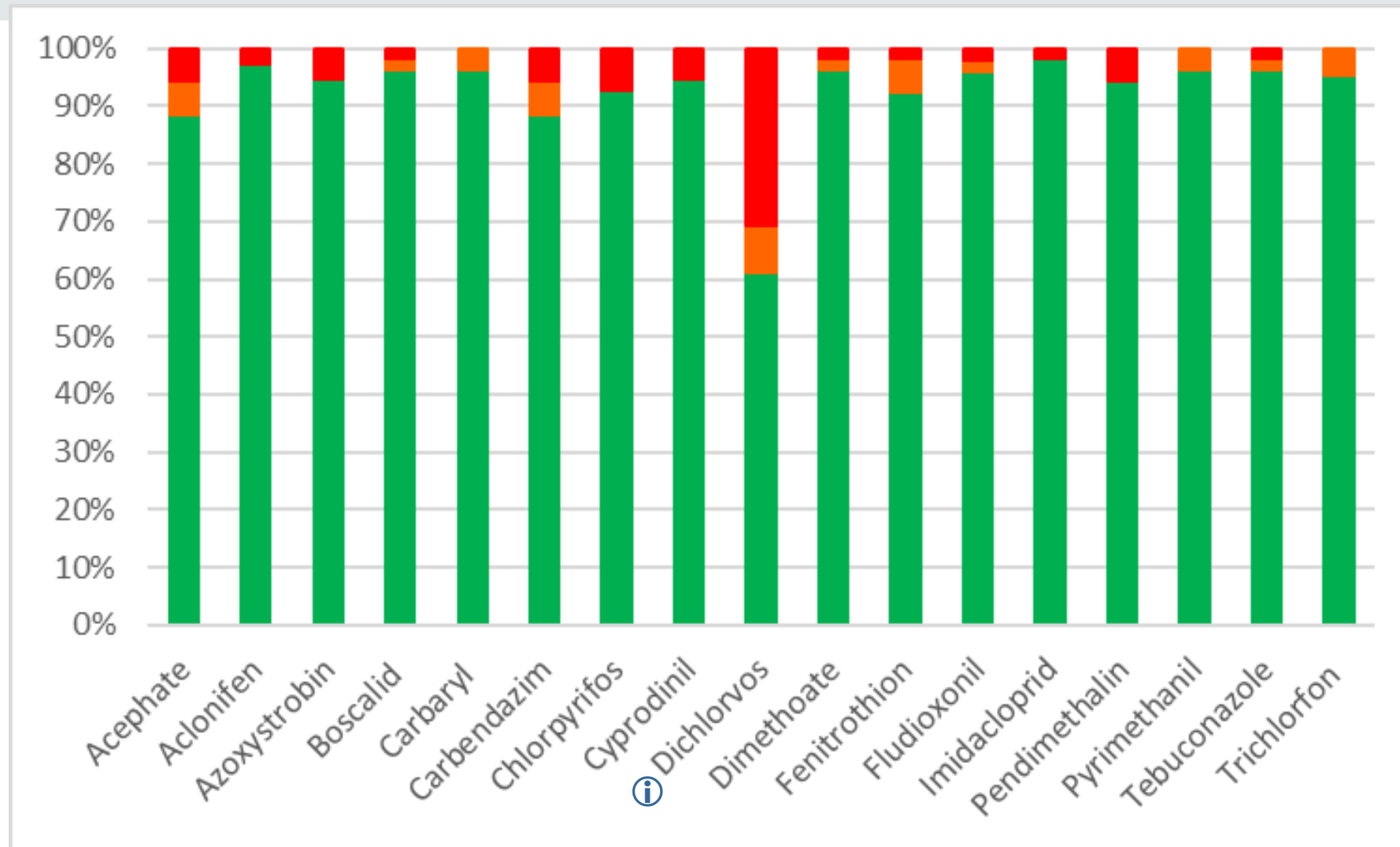
z score classification

EU/EFTA Laboratories

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① For
information
purposes

Z Scores classification



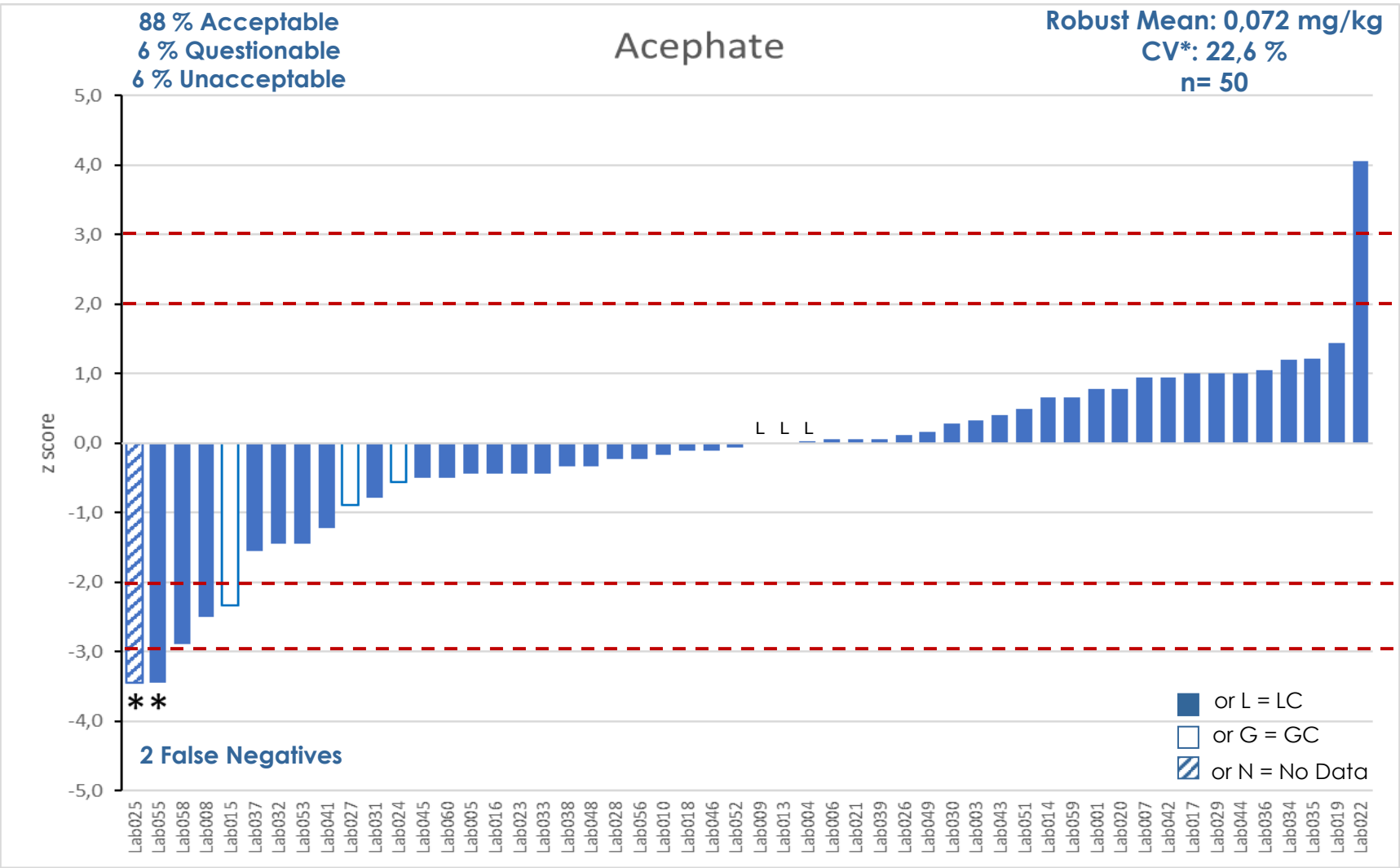
EU/EFTA
Labs

Acceptable

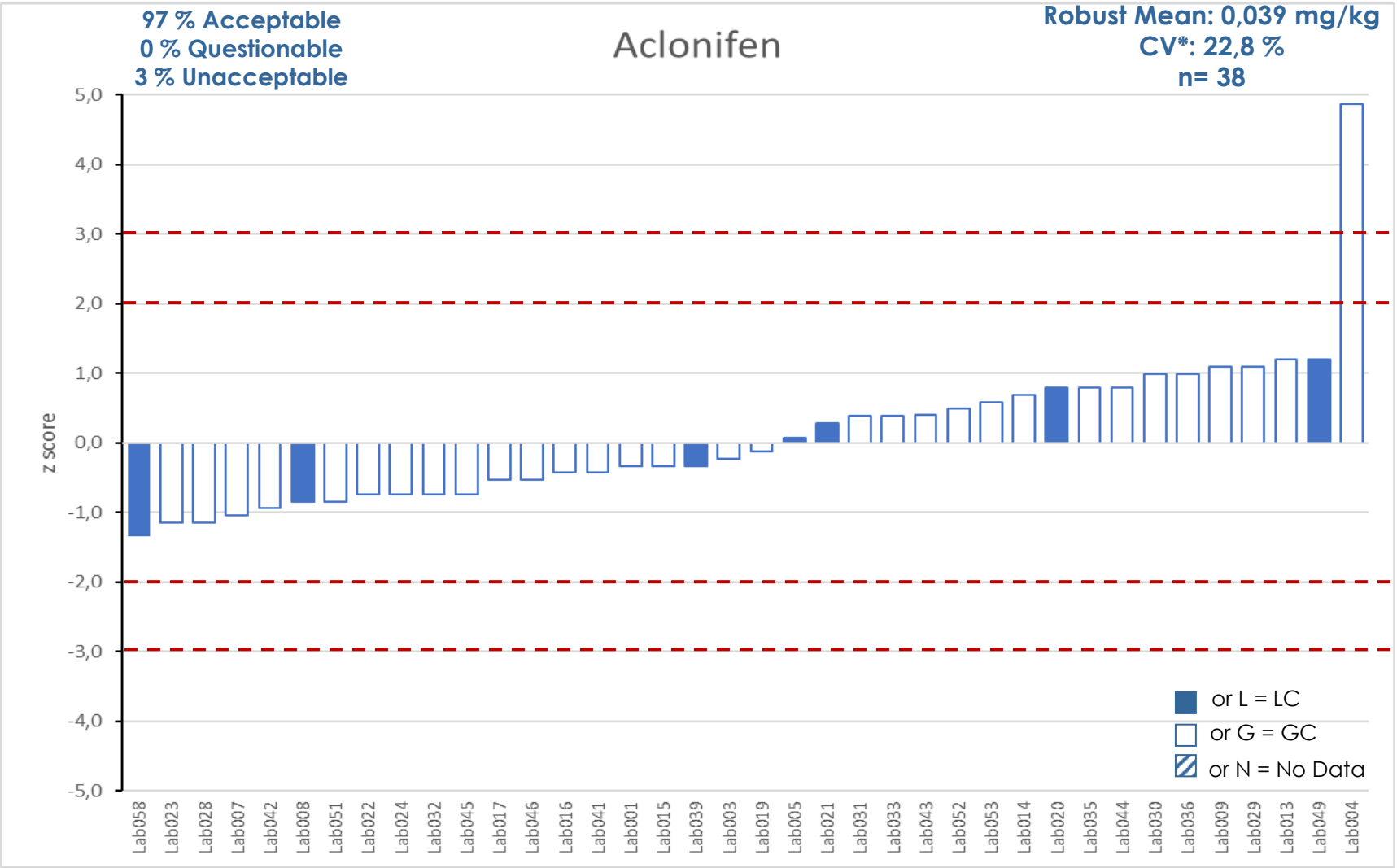
Questionable

Unacceptable

EU/EFTA Laboratories

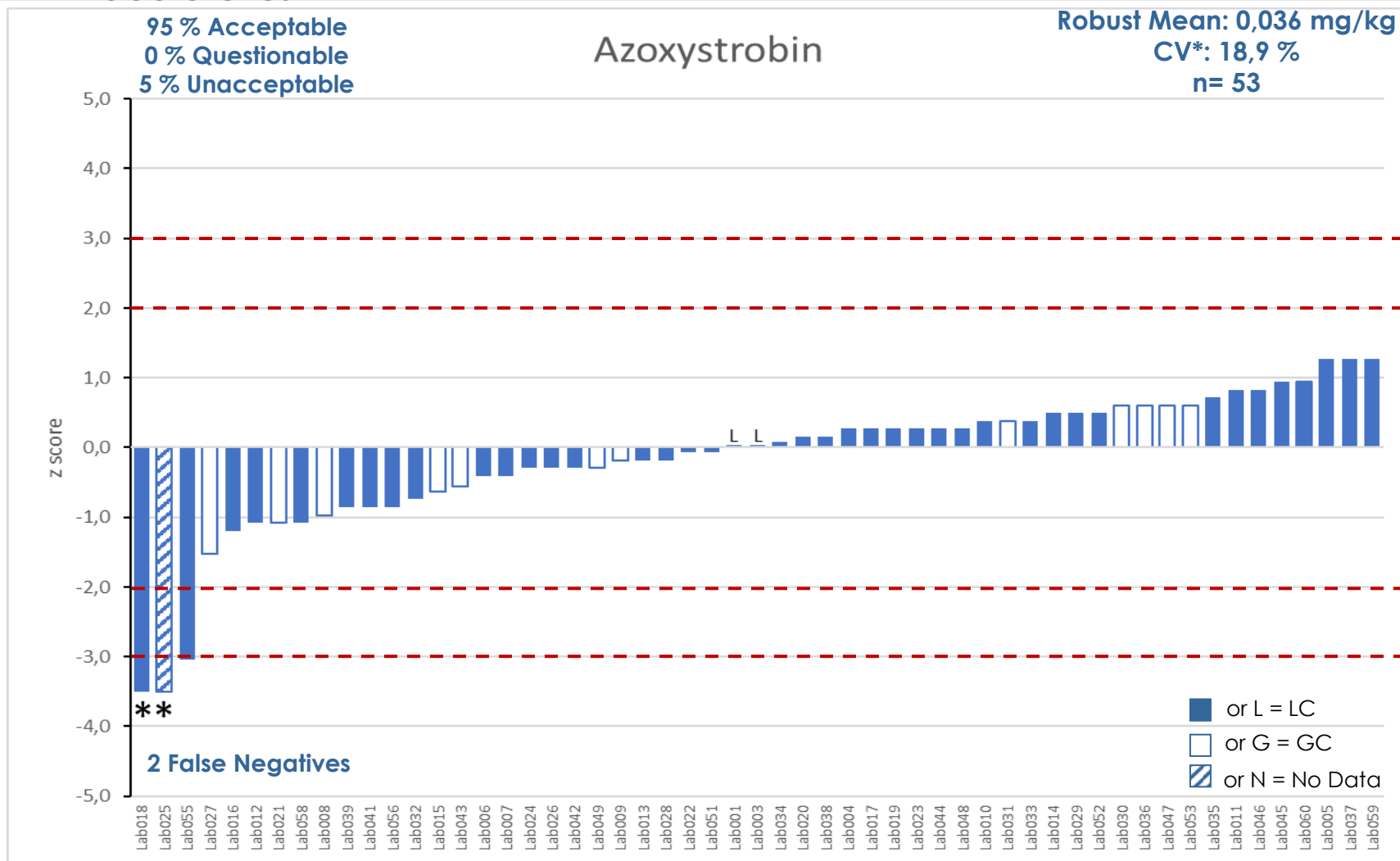


EU/EFTA Laboratories

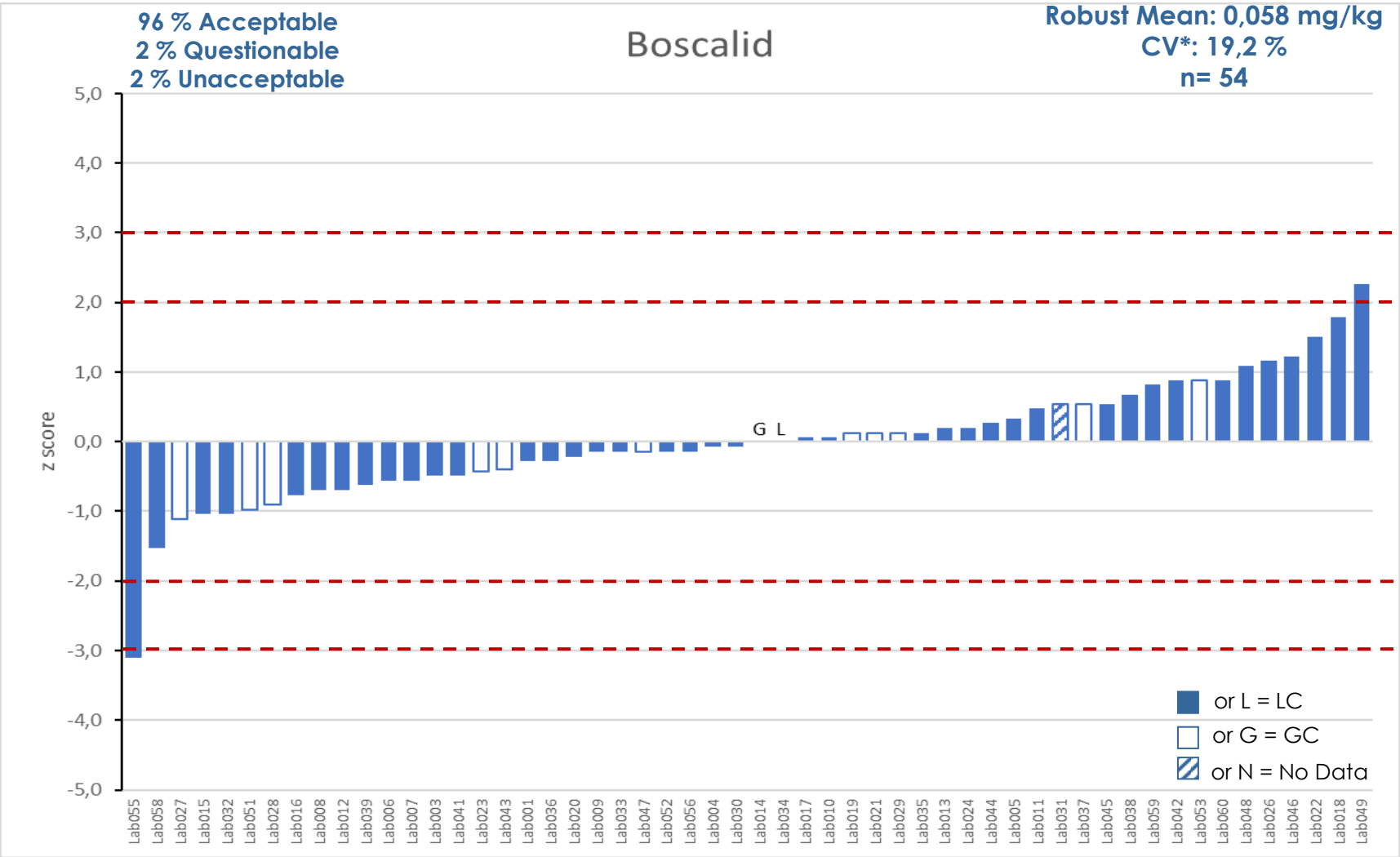




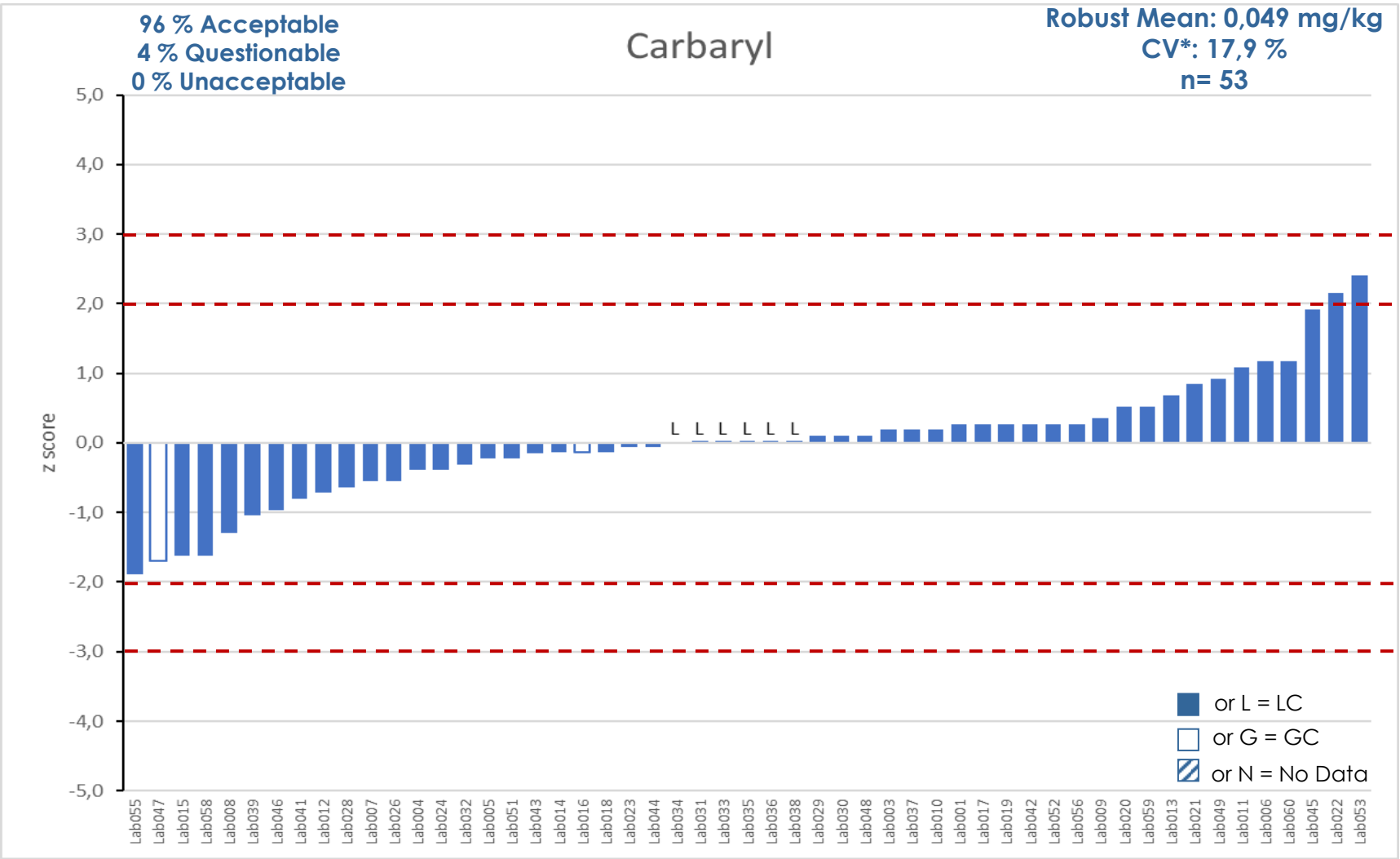
EU/EFTA Laboratories



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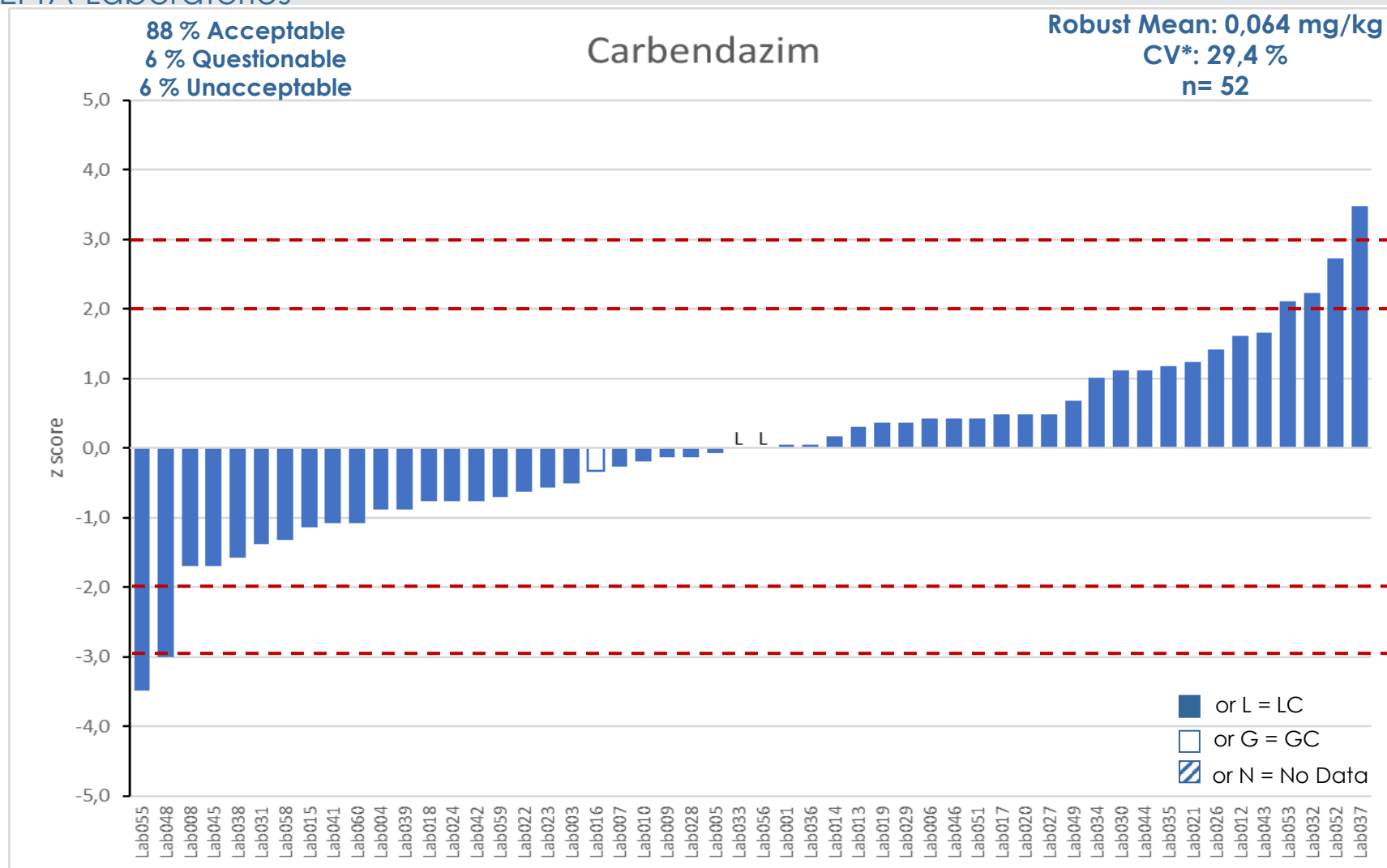


EU/EFTA Laboratories

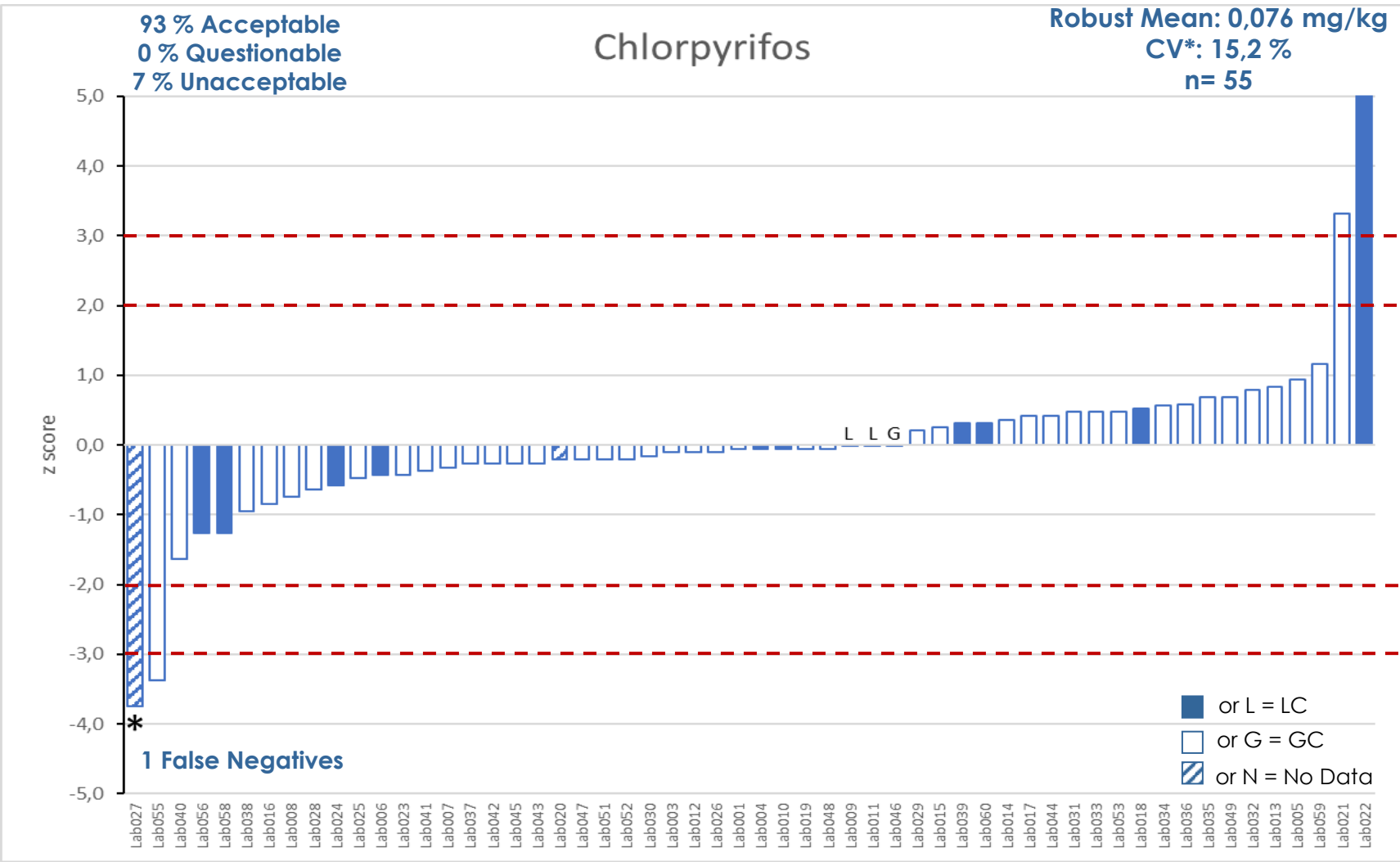




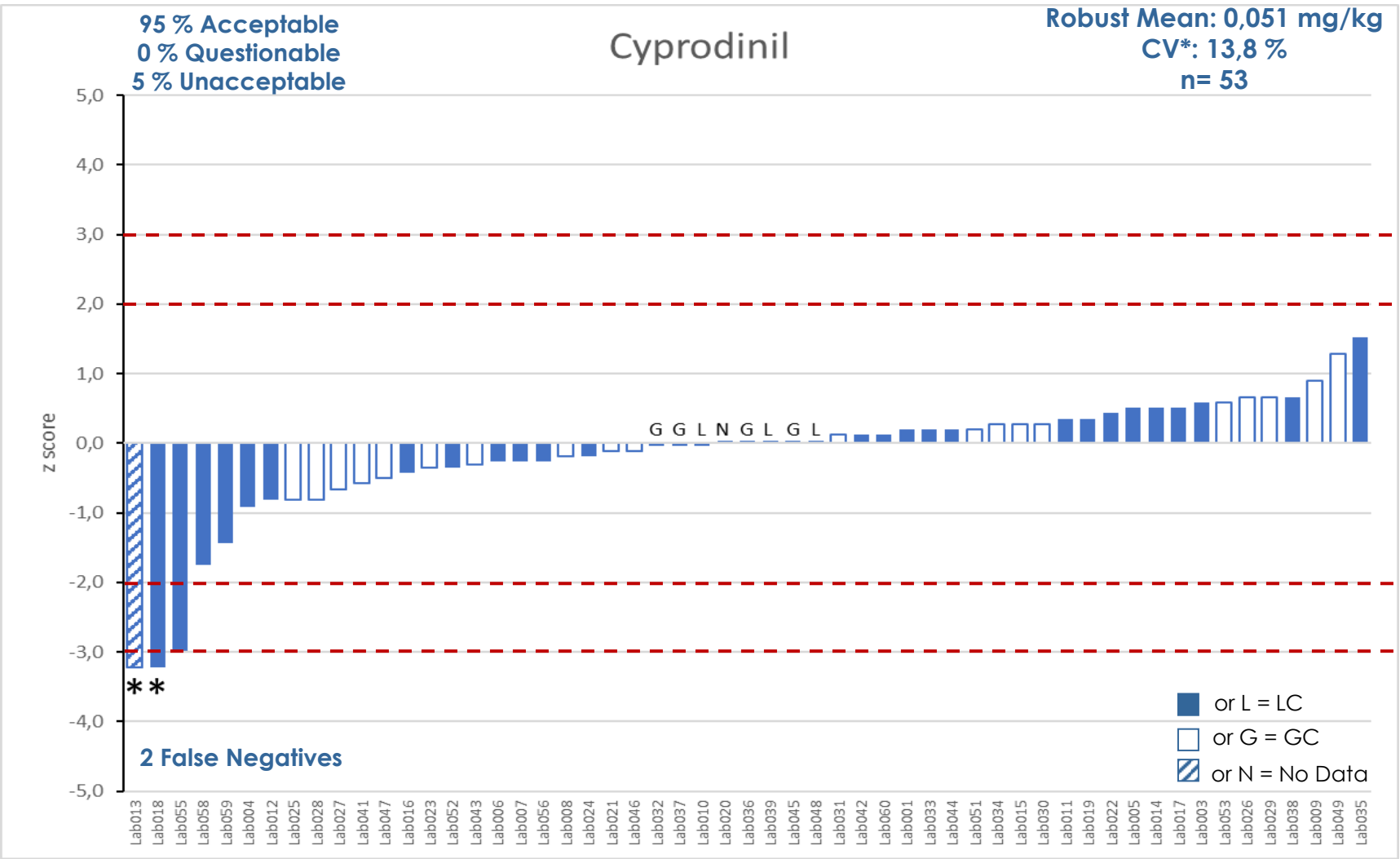
EU/EFTA Laboratories



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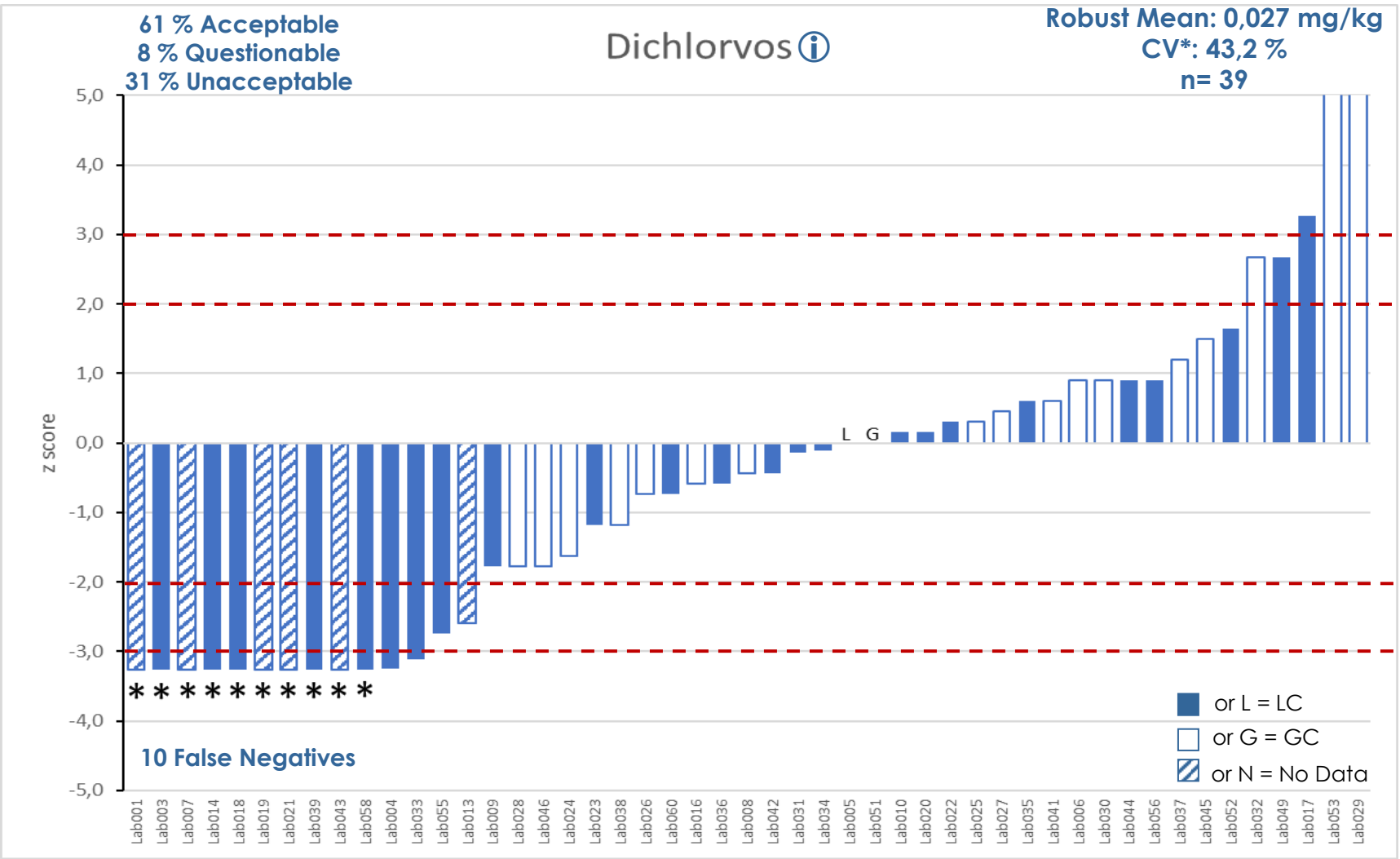


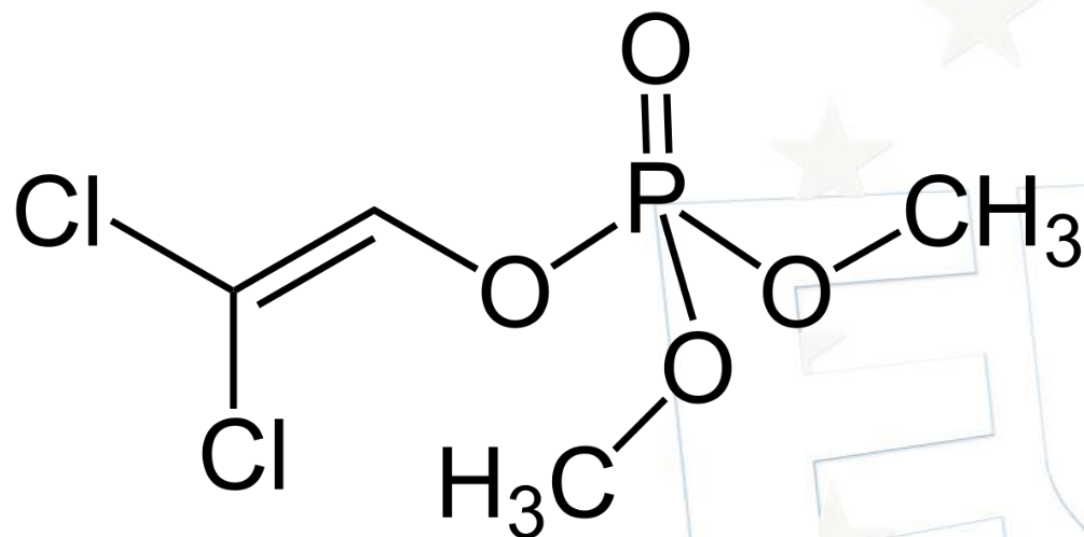
EU/EFTA Laboratories



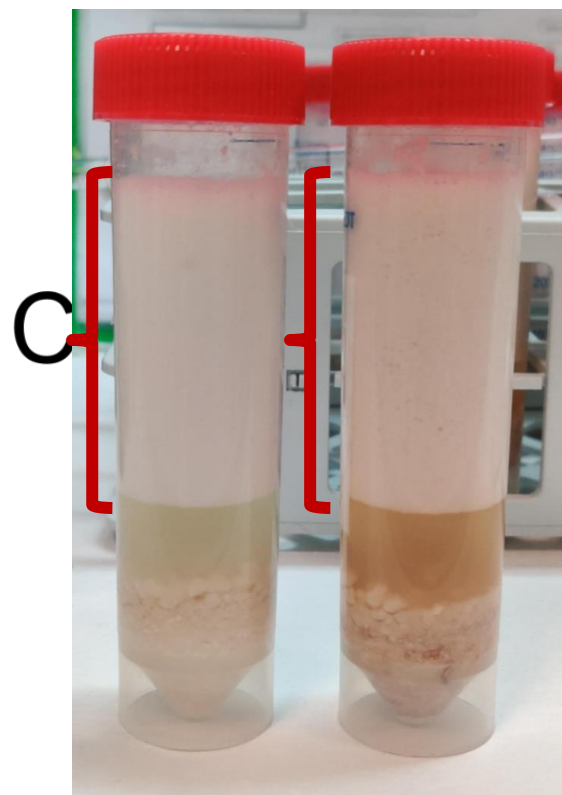
EU/EFTA Laboratories

ⓘ For
 information
 purposes

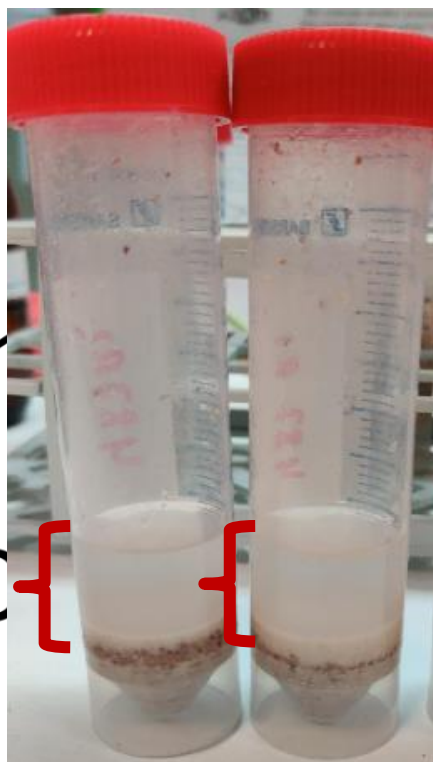




- Very volatile
- Stability test passed
- Degradation of dichlorvos in SC05 sample after 5 months in freezer
- If SC05 sample was repeatedly taken out of the freezer, a decrease in dichlorvos concentration was observed.



With water

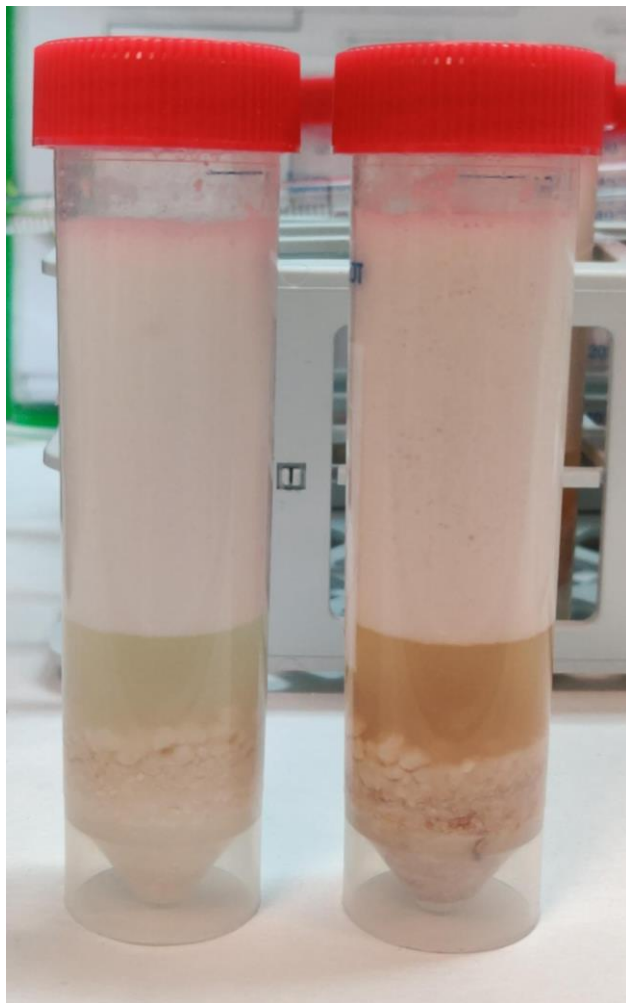


Without water

- **Recoveries** of dichlorvos in the blank white bean used for the test item using the citrate QuEChERS method were **low (approx 40%)**
- The addition of water prior to extraction resulted in a very rich emulsion



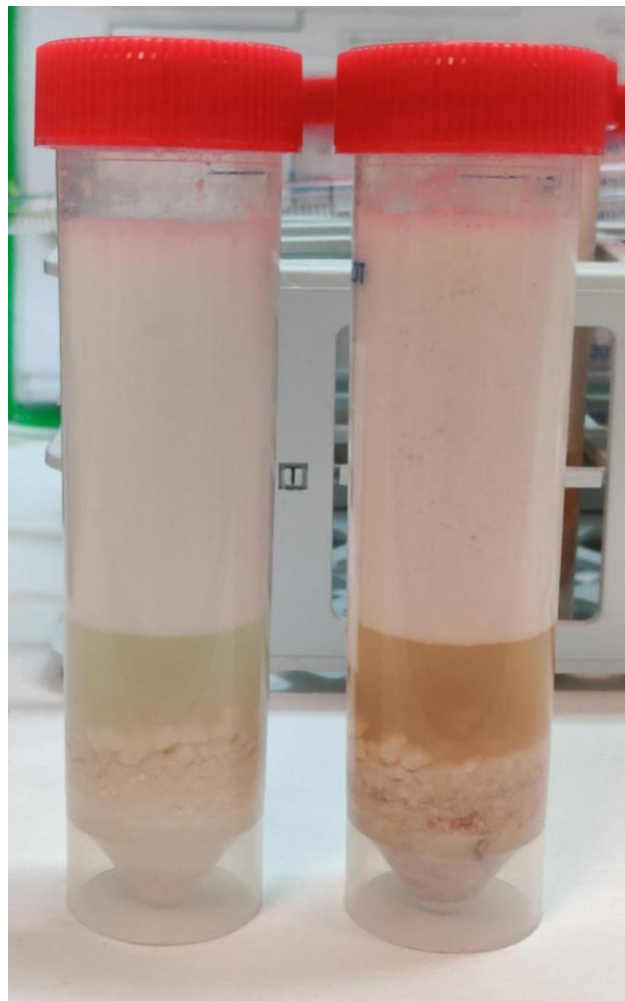
Dichlorvos



- The emulsion depends on the type of beans.
- The emulsion hinders the extraction of dichlorvos.



Dichlorvos recoveries are very dependent on the bean variety



Some ways to improve dichlorvos recoveries....

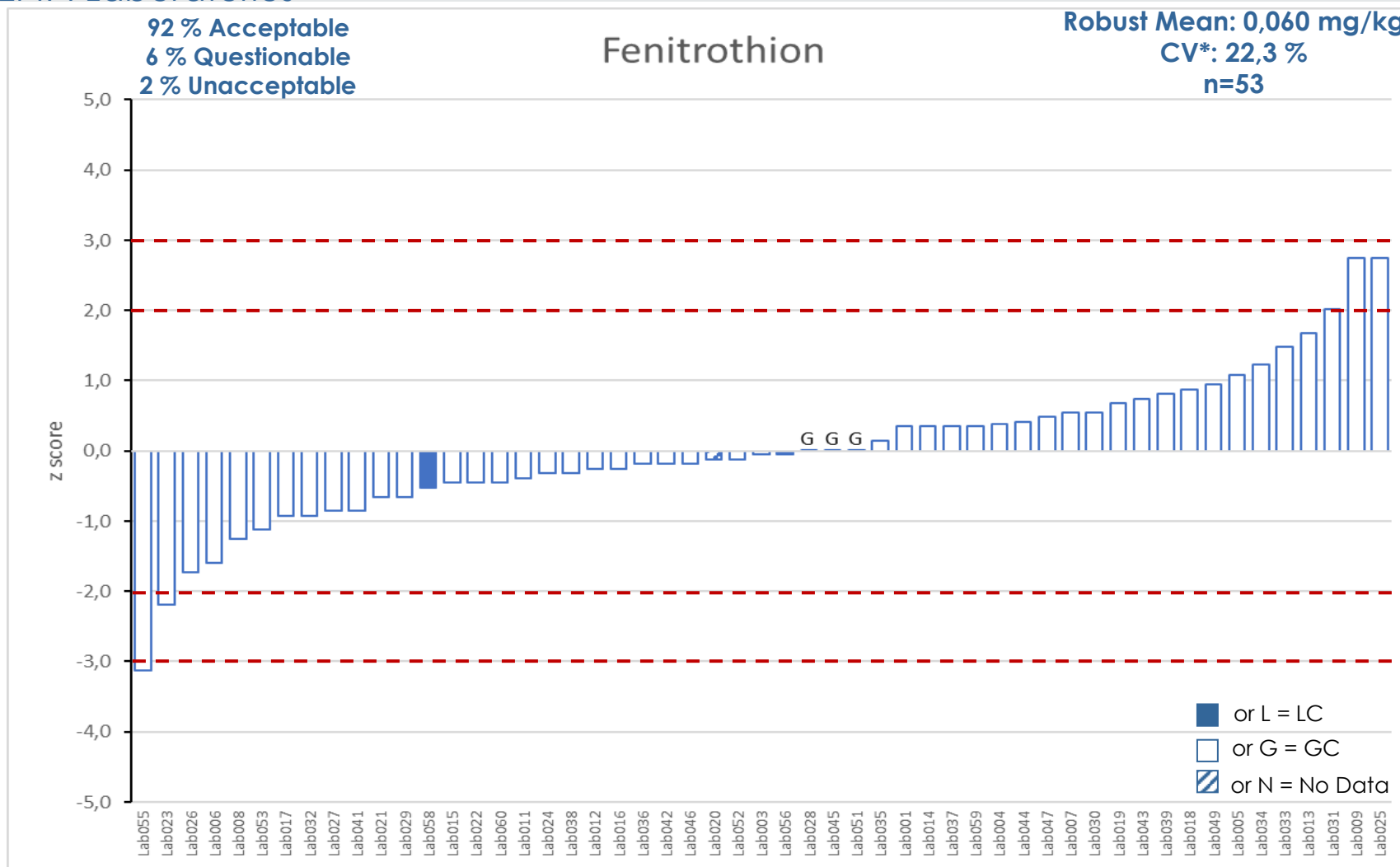
- Increasing agitation time and/or strength
- Not adding water prior to extraction
- Adding SDS in order to “break” the emulsion



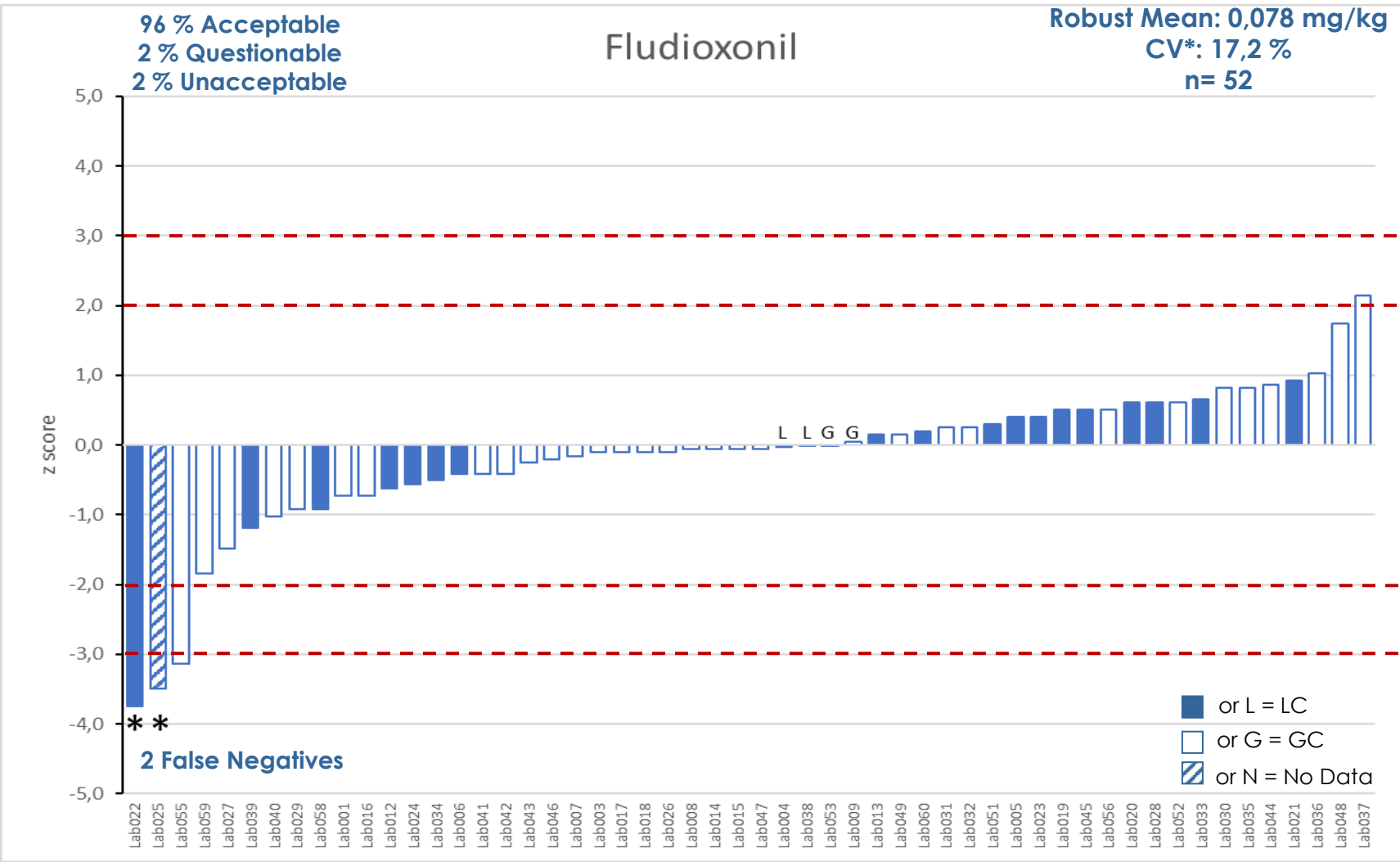




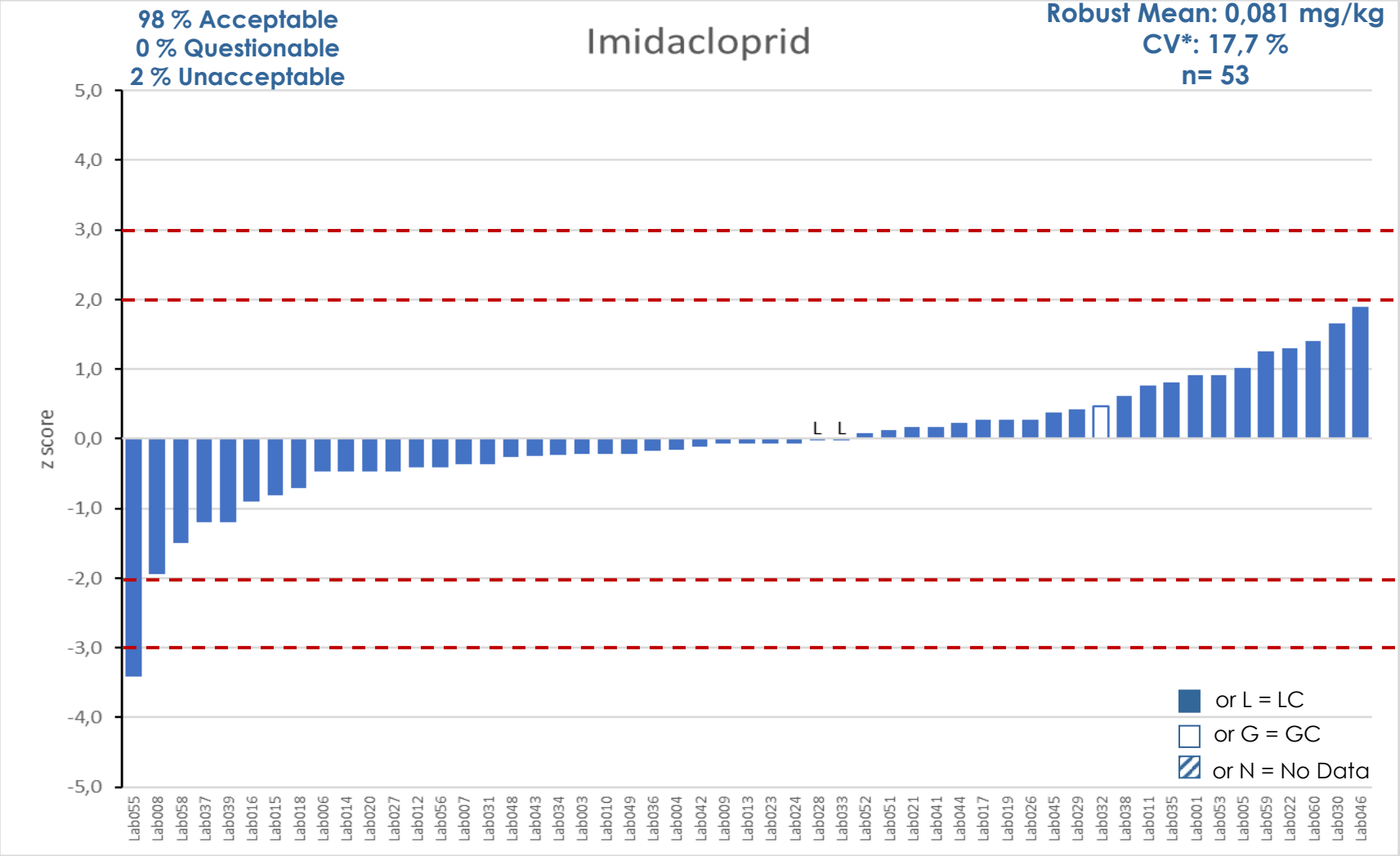
EU/EFTA Laboratories



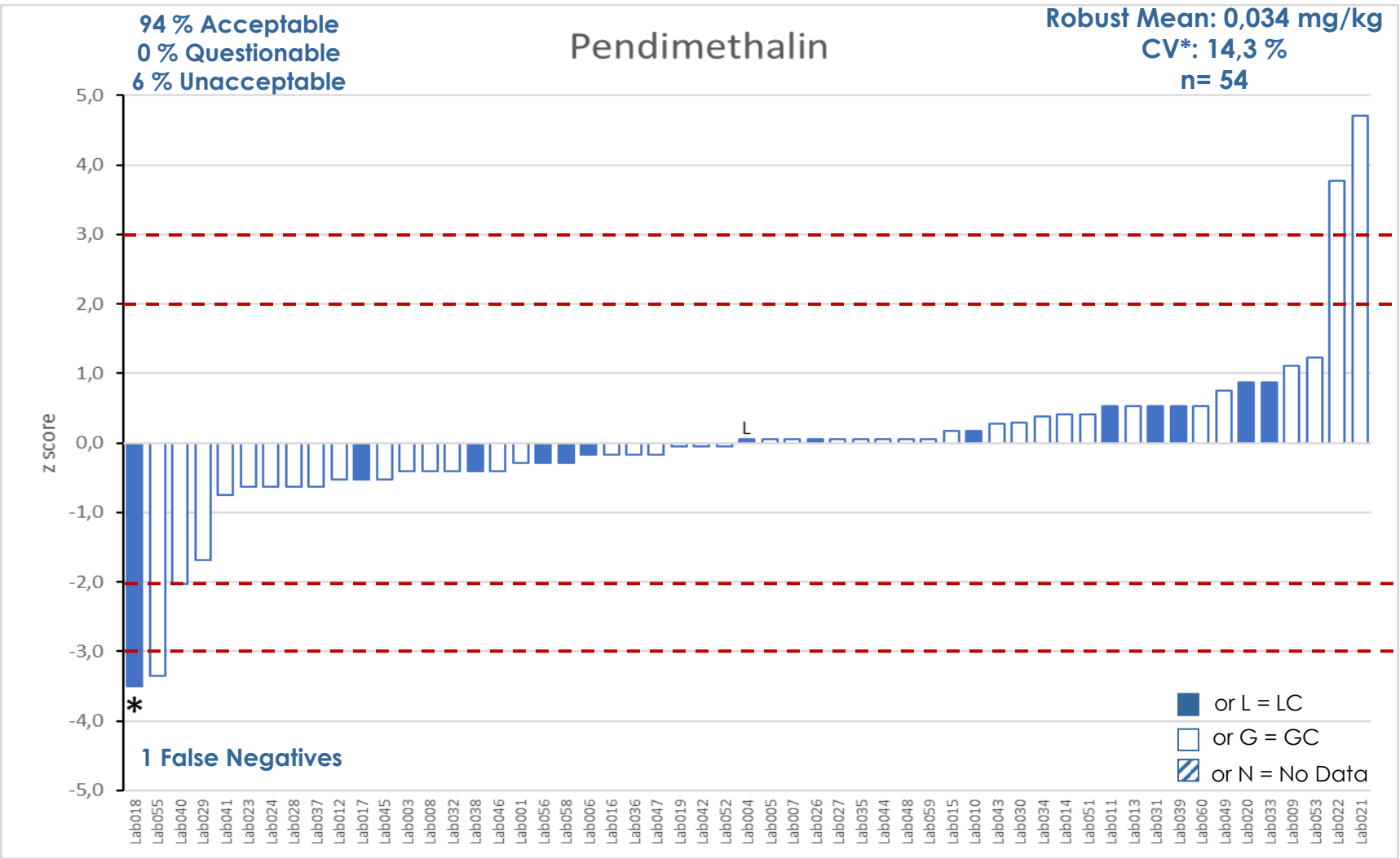
EU/EFTA Laboratories



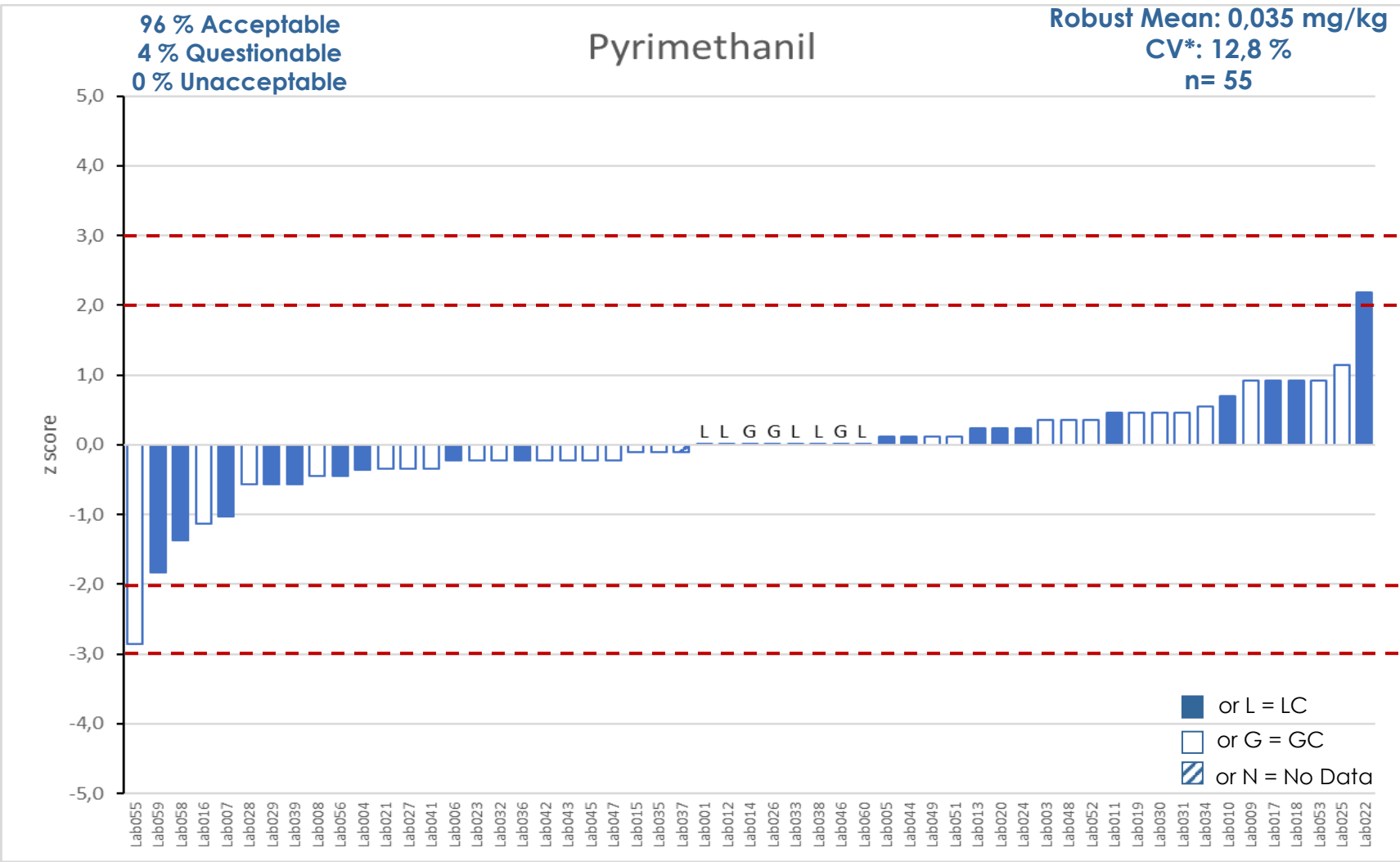
EU/EFTA Laboratories



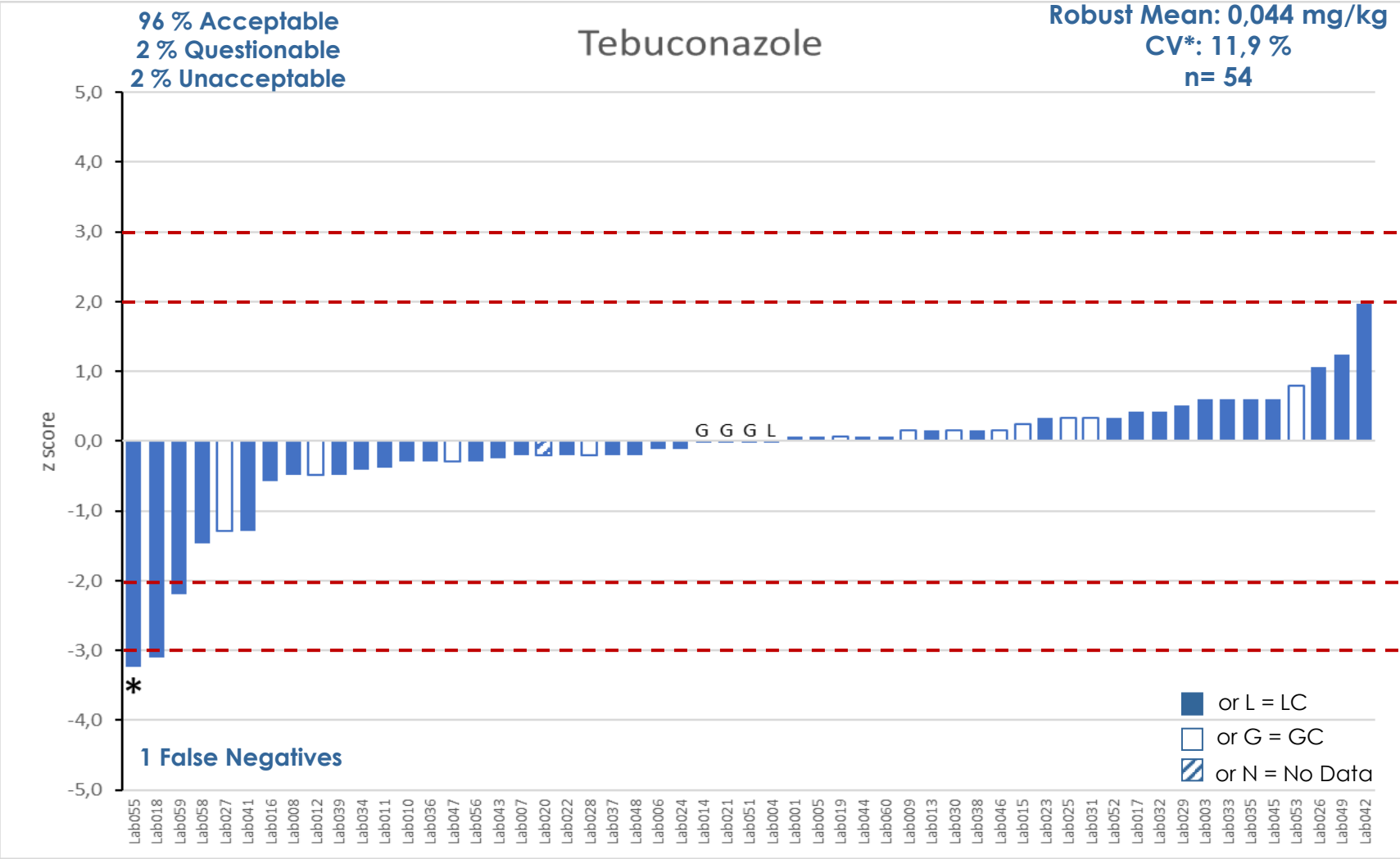
EU/EFTA Laboratories



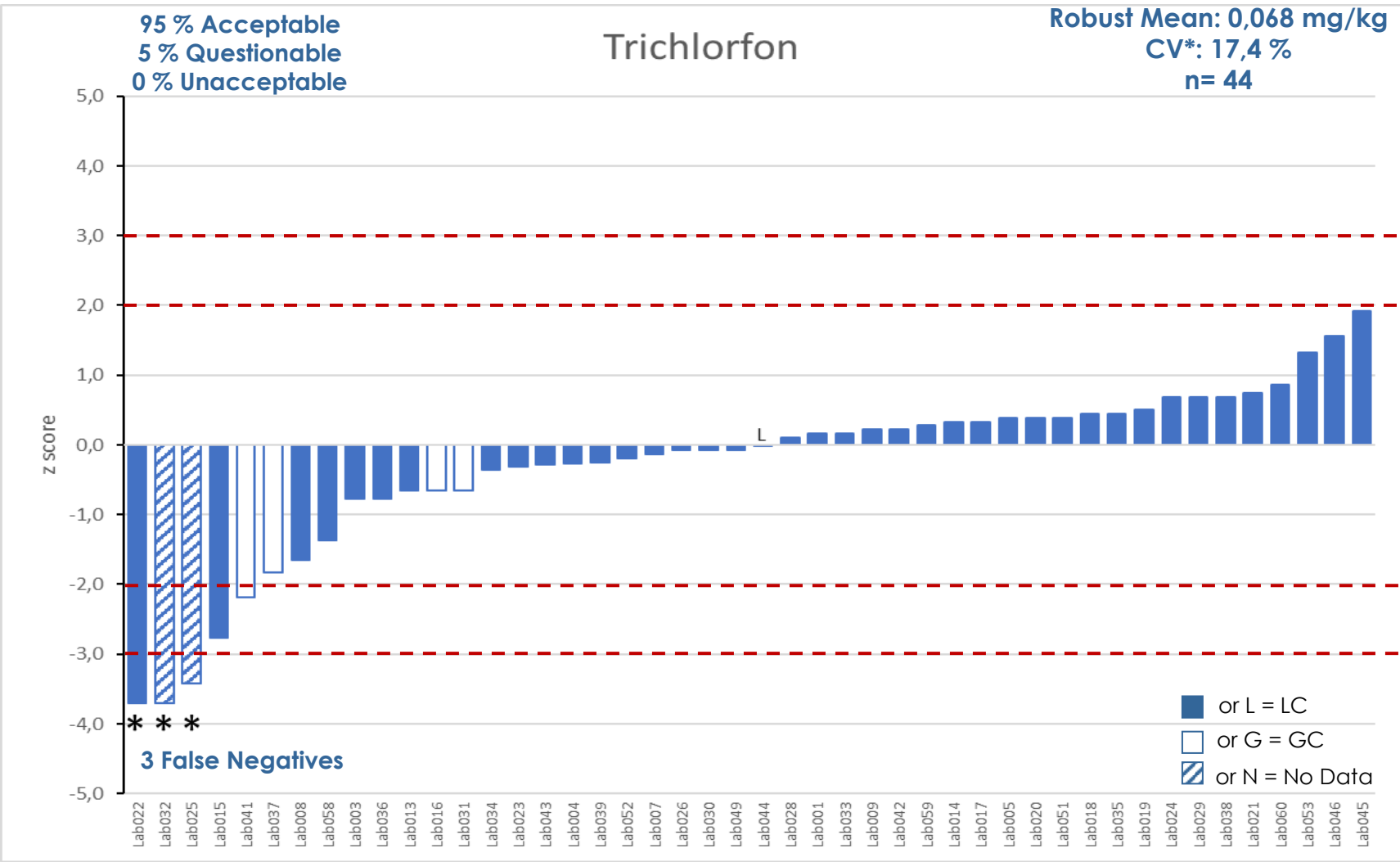
EU/EFTA Laboratories



EU/EFTA Laboratories



EU/EFTA Laboratories



Combined z-Scores

Average of Squared z-Scores

Category A

193

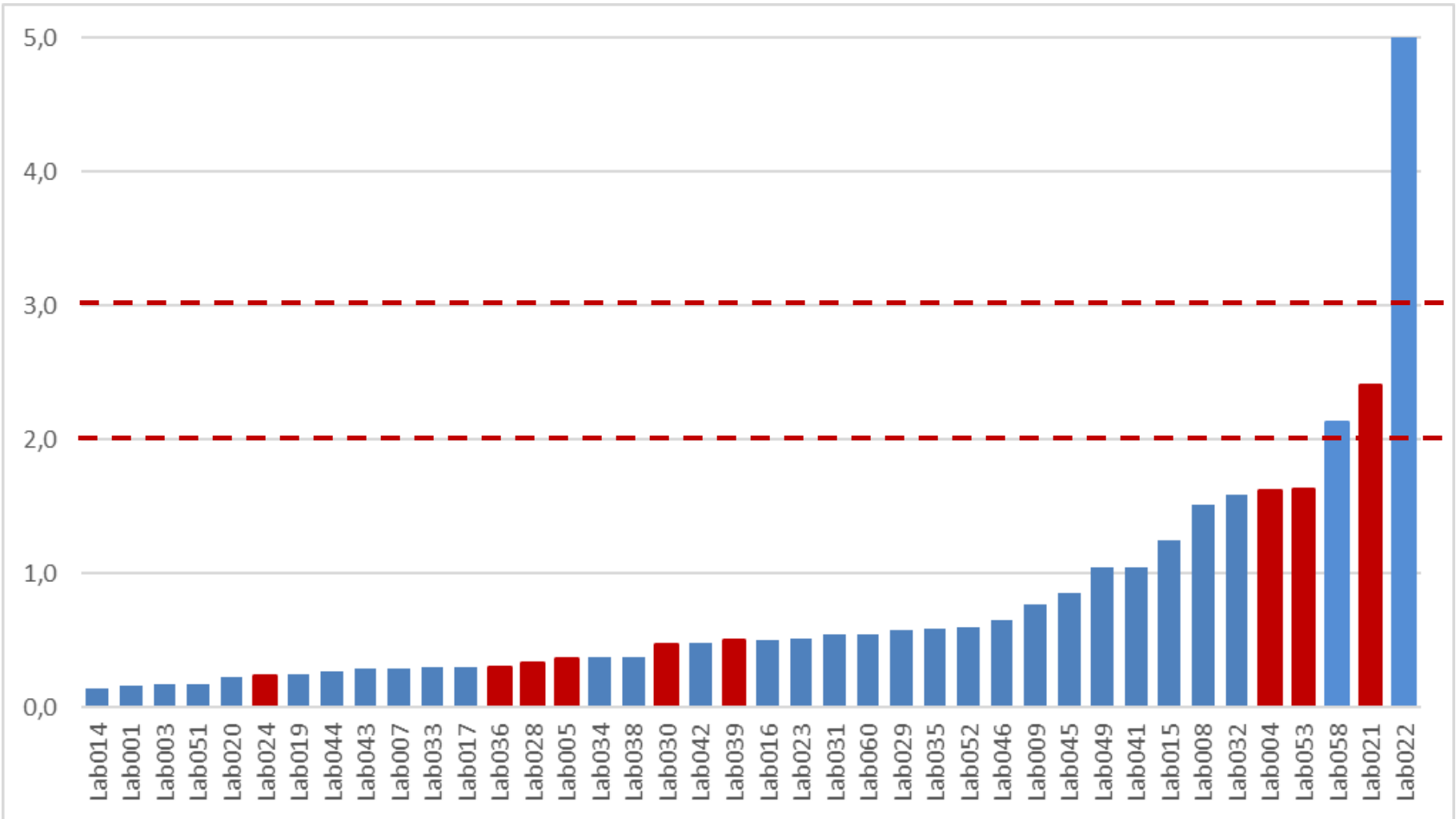
Laboratories that were able to analyse at least **90% of the compulsory pesticides in the target pesticides list**, that detected and quantified at least **90 % of the pesticides present in the Test Item** and reported **no false positives**.

14



Dichlorvos was not included for the evaluation of Category A

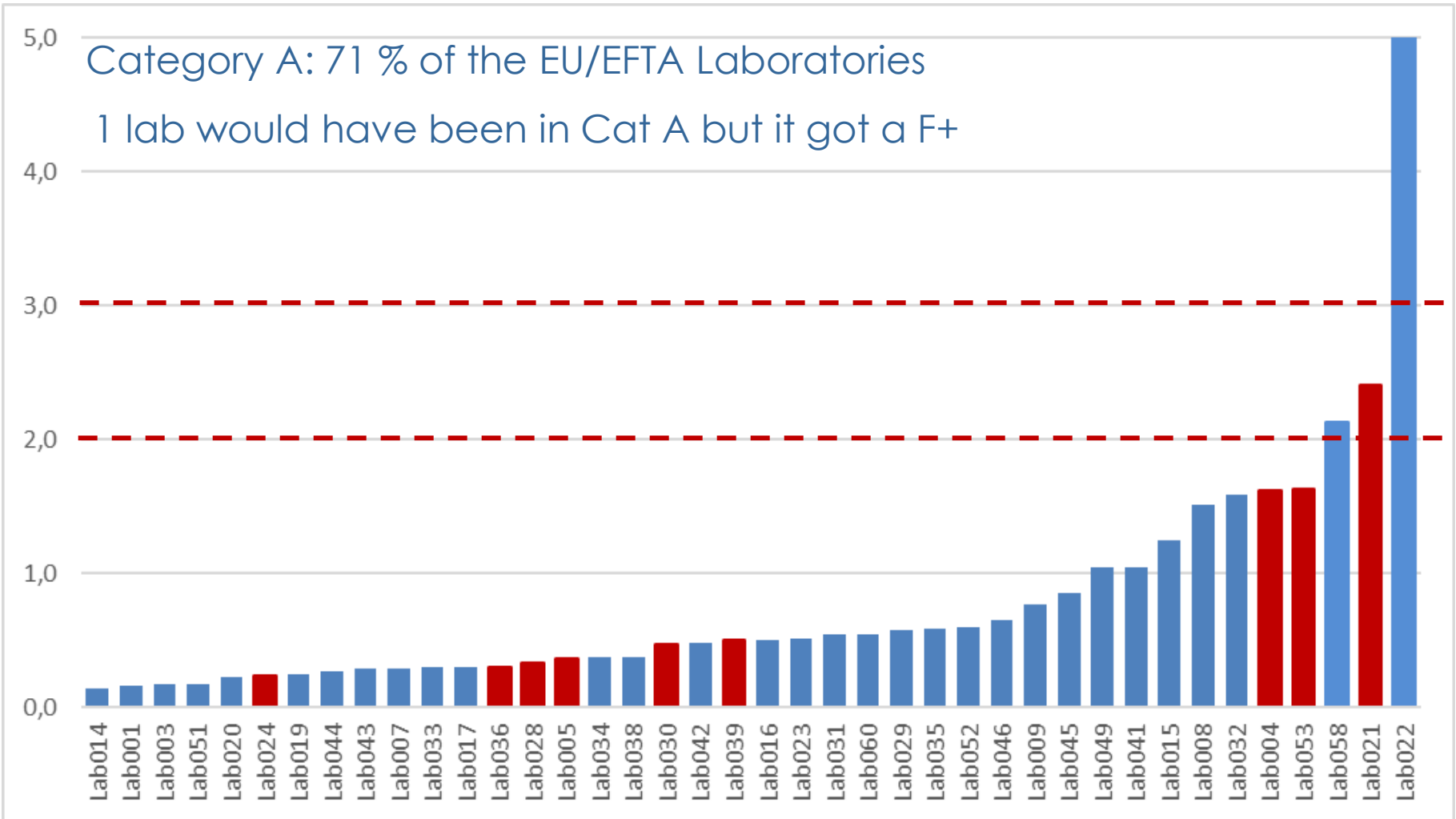
EU/EFTA Laboratories



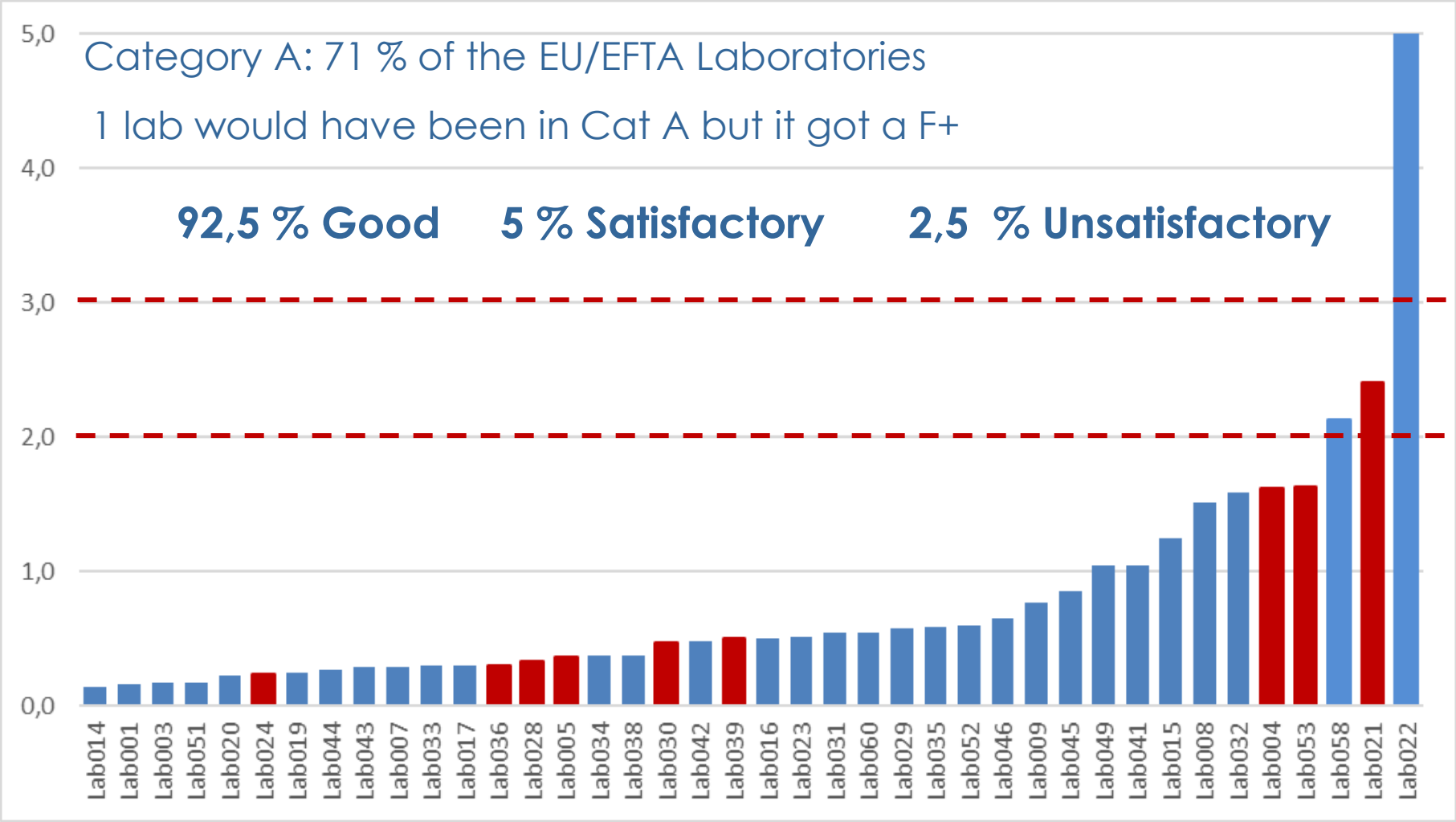
NRL-FV

OfL

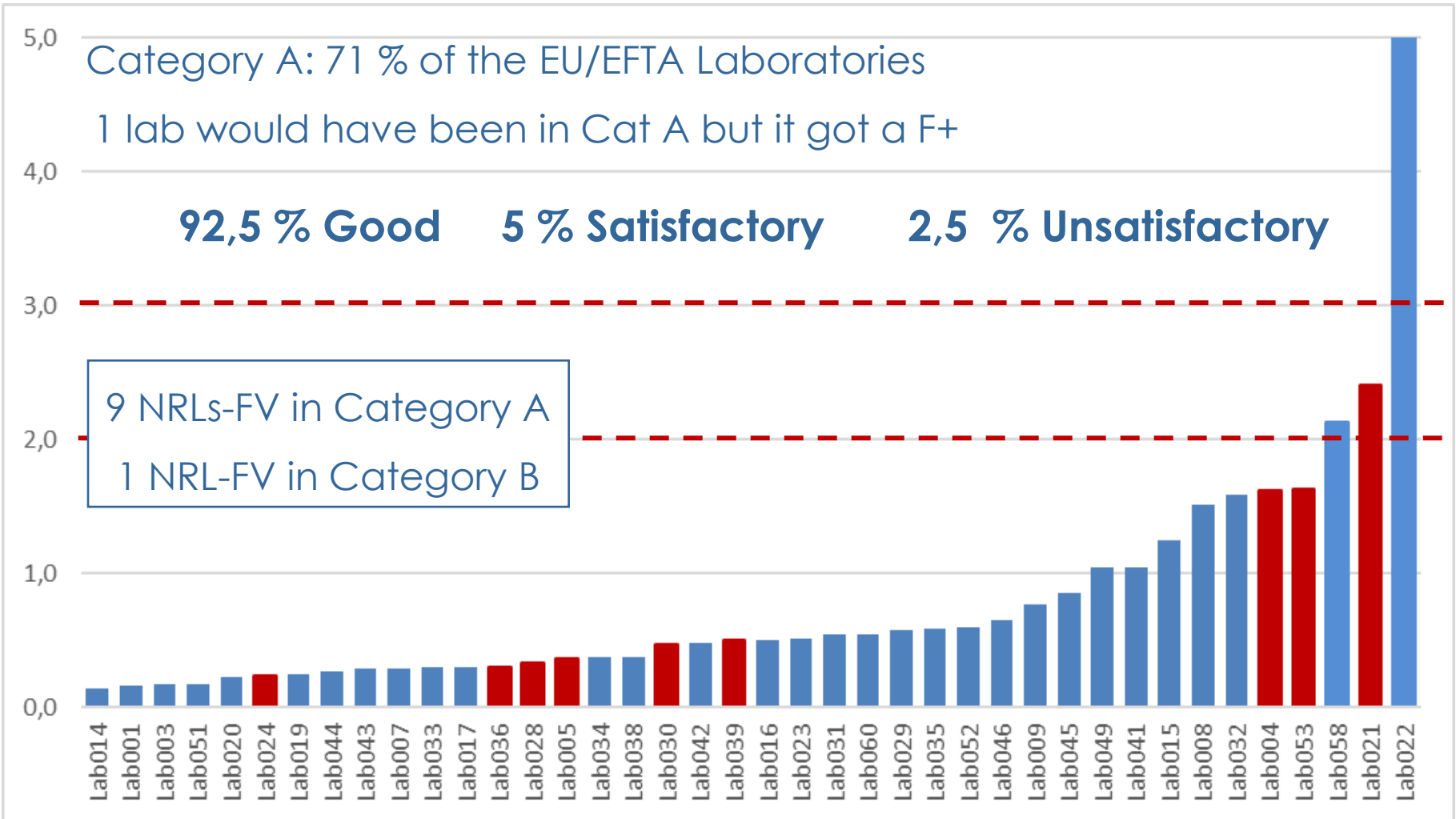
EU/EFTA Laboratories



EU/EFTA Laboratories



EU/EFTA Laboratories



False Positives

2 laboratories reported **2** pesticides as false positives (including non-EU/EFTA)

Lab Code	Pesticide	Reporting level (mg/kg)	Concentration (mg/kg)	Determination technique
Lab026	Flonicamid	0,01	0,091	LC-MS/MS (QQQ)
Lab002	Phosmet	0,01	0.04	-

Announcement

EUPT-SCA

Chilly Pep

ACTIVITY	DATE
Registration period	18 th October 2022- 7 th November 2022
Sample distribution	28 th November 2022
Deadline for receiving results	9 th January 2023



THANK YOU
FOR YOUR ATTENTION



EURL-FV

