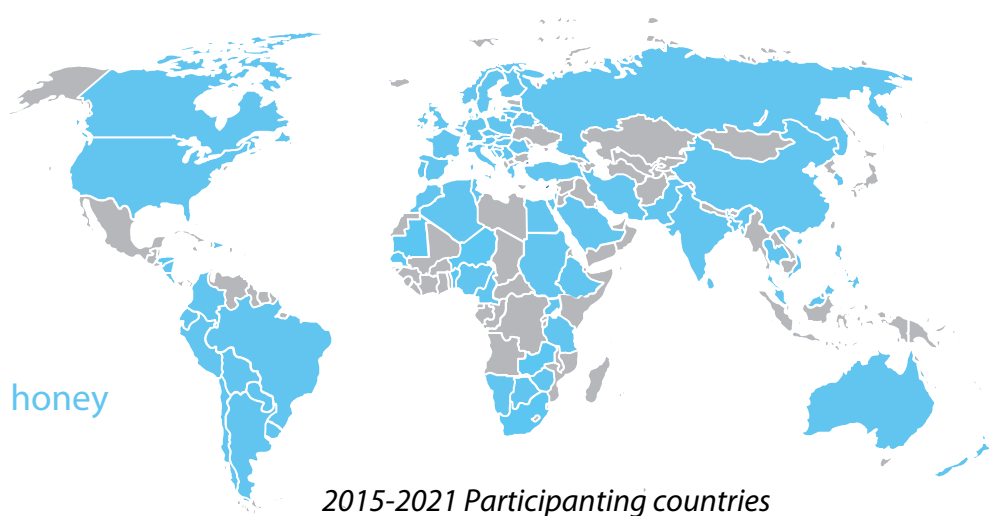


### Highlights:

- aflatoxin M1 in hard cheese
- natamycin in cheese
- metals in milk
- nitrates&nitrites in milk
- pesticides in milk
- sulphites in shrimps
- NSAIDs in muscle
- macrolides in fish
- nitroimidazoles in muscle and honey
- progesterone in serum



2015-2021 Participating countries

### *A better Proficiency Test approach*

Test Veritas S.r.l. was created to satisfy the increasing international demand for services and products for the conformity assessment in the field of agri-food analysis.

For External Quality Control, Test Veritas offers to its customers the interlaboratory proficiency testing scheme **Progetto Trieste**.

The main features of Progetto Trieste are:

- Screening results are assessed by dedicated criteria
- Z-scores are not affected by screening results
- Test materials are mainly incurred
- Two samples with different concentrations are often provided



## Progetto Trieste

Laboratory Proficiency Testing  
for Food Safety Analysis

23 years of experiences  
74 participating countries

List of *EN ISO/IEC 17043:2010*

accredited scopes  
available at  
[www.accredia.it](http://www.accredia.it)  
(Cert. PTP N. 0008 P)

Details of accredited  
schemes available at  
[www.testveritas.com](http://www.testveritas.com)

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# Progetto Trieste - Proficiency Testing

## Groups of analytes

### **Mycotoxins**

Aflatoxins B<sub>1</sub>,G<sub>1</sub>,B<sub>2</sub>,G<sub>2</sub>,M<sub>1</sub>  
Fumonisin  
Ochratoxin A  
Patulin  
DON  
Zearalenone

(pages n. 16-18)

### **Veterinary drug residues**

Synthetic steroids  
RAL  
Stilbenes  
βagonists  
Ractopamine  
Corticosteroids  
Chloramphenicol  
Tetracyclines  
Quinolones and fluoroquinolones  
Nitrofurantoin metabolites  
Avermectins  
Anthelmintics  
Macrolides  
β-lactams  
Sulphonamides  
Coccidiostats  
Streptomycin  
Nitroimidazoles  
Illegal dyes  
NSAIDs  
Thyrostats  
Progesterone

(pages n. 3-12)

### **Histamine biogenic amines and TVBN**

(page n.7)

### **Pesticides**

Fipronil, Glyphosate, Pyrethroids  
and others pesticides, see the lists on page n.14

(pages n.13-14)

### **Metals**

Lead, Cadmium, Mercury, Arsenic  
Tin, Iron

(page n.15)

### **Additives**

Nitrates, Nitrites, Sulphites, Natamycin

(page n.16)

### **Acrylamide**

(page n.17)

# Progetto Trieste - Veterinary Drug Residues 2022 Programme

Those proficiency tests could distinguish between participations with confirmatory methods (e.g. HPLC, GC) or screening methods (ELISA, RIA, biosensors, microbial inhibition assays, lateral flow, etc...).

For participating with **confirmatory methods** the code is **A** and quantification is requested. Evaluation of performance will be in z-score terms.

For participating with **screening methods** the code is **B** and quantification is optional. Qualitative results will be assessed by dedicated criteria (see *Evaluation Criteria* at [www.testveritas.com](http://www.testveritas.com)).

When the shipment includes 2 test materials, they are at a different concentration of analyte. The laboratory will receive an evaluation for each test material.

## ROUND of MARCH (see next page too)

Shipping date: March 14th 2022. Result submission deadline: April 19th 2022. Final Report available in May 2022.

Order deadline: January 31st 2022

Analytes	Matrix	Status	Code		Quantity	Euro
Chloramphenicol	bovine milk <sup>L10</sup>	spiked	MI2100	A B	20ml x 2 Test Materials 10ml x 2 Test Materials	330,00 290,00
Chloramphenicol	chicken muscle <sup>L10</sup>	spiked	M2101	A B	20g x 2 Test Materials 10g x 2 Test Materials	330,00 290,00
Chloramphenicol	eggs <sup>L10</sup>	spiked	E2102	A B	30g x 2 Test Materials 15g x 2 Test Materials	330,00 290,00
Tetracyclines and Quinolones/ Fluoroquinolones	bovine milk <sup>L10</sup>	spiked or incured	MI2105	A B	20ml x 2 Test Materials 10ml x 2 Test Materials	450,00 350,00
partial participations in MI2105						
Only for analysis of Quinolones/Fluoroquinolones: MI2105/Q				A B	20ml x 2 Test Materials 10ml x 2 Test Materials	330,00 290,00
Only for analysis of Tetracyclines: MI2105/T				A B	20ml x 2 Test Materials 10ml x 2 Test Materials	330,00 290,00
Nitrofuran metabolites	swine muscle <sup>L10</sup>	spiked or incured	M2104	A B	20g x 2 Test Materials 10g x 2 Test Materials	330,00 290,00
Sulphonamides	eggs <sup>L10</sup>	spiked or incured	E2103	A B	30g x 2 Test Materials 15g x 2 Test Materials	330,00 290,00

Analysis of sulphonamides intended to the homogeneity study have been subcontracted. Test Veritas is responsible of subcontracted activities.

<sup>L10</sup>Lyophilized material. Quantity regards the final quantity after reconstitution. Instructions for reconstitution will be delivered with the test material.

## TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below. The proposed concentrations are indicative, especially for incurred matrix (naturally contaminated) with multiple contamination. In case 2 test materials are provided, one could be blank.

Milk test materials would contain preservative solutions.

It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
Chloramphenicol	chloramphenicol	eggs, milk: < 2 ppb or blank muscle: < 3 ppb or blank
Tetracyclines	oxytetracycline, chlortetracycline, doxycycline, tetracycline and epimers	milk: < 400 ppb or blank
Quinolones and fluoroquinolones	enrofloxacin, ciprofloxacin, flumequine, marbofloxacin, danofloxacin, difloxacin, sarafloxacin, nalidixic acid, oxolinic acid, norfloxacin	milk: < 300 ppb or blank
Nitrofurans metabolites	AOZ, AMOZ, AHD, SEM	muscle: < 4 ppb or blank
Sulphonamides	sulfamethazine, sulfadimethoxine, sulfaquinoxaline, sulfamerazine, sulfadiazine, sulfadoxine, sulfamethoxypyridazine, sulfamethoxazole, sulfamonomethoxine, sulfathiazole	eggs: < 50 ppb or blank



# Progetto Trieste - Veterinary Drug Residues 2022 Programme

## ROUND of MARCH (see previous page too)

Shipping date: March 14th 2022. Result submission deadline: April 19th 2022. Final Report available in May 2022.

Order deadline: January 31st 2022

Analytes	Matrix	Status	Code		Quantity	Euro			
Tetracyclines and Quinolones/ Fluoroquinolones	egg <sup>L10</sup>	spiked or incurred	E2106	A	30g x 1 Test Material	450,00			
				B	15g x 1 Test Material	350,00			
partial participations in E2106									
Only for analysis of Quinolones/Fluoroquinolones: E2106/Q				A	30g x 1 Test Material	330,00			
				B	15g x 1 Test Material	290,00			
Only for analysis of Tetracyclines: E2106/T				A	30g x 1 Test Material	330,00			
				B	15g x 1 Test Material	290,00			
Anthelmintics	bovine muscle <sup>L10</sup>	spiked	M2107	A	25g x 1 Test Material	330,00			
				B	10g x 1 Test Material	290,00			
Macrolides	bovine muscle <sup>L10</sup>	spiked	M2108	A	25g x 1 Test Material	330,00			
				B	10g x 1 Test Material	290,00			
NSAIDs	bovine muscle <sup>L10</sup>	spiked	M2109	A	25g x 1 Test Material	330,00			
Chloramphenicol and β-agonists	animal watering water	spiked	WA2110	A	25ml x 2 Test Materials	450,00			
				B	10ml x 2 Test Materials	350,00			
partial participations in WA2110									
Only for analysis of Chloramphenicol: WA2110/C				A	25ml x 2 Test Materials	330,00			
				B	10ml x 2 Test Materials	290,00			
Only for analysis of beta-agonists: WA2110/G				A	25ml x 2 Test Materials	330,00			
				B	10ml x 2 Test Materials	290,00			

<sup>L10</sup>Lyophilized material. Quantity regards the final quantity after reconstitution. Instructions for reconstitution will be delivered with the test material.

For participating with **confirmatory methods** (HPLC, GC) the code is **A**. Quantification is required.

For participating with **screening methods** (ELISA, RIA, biosensors, microbial inhibition assay, lateral flow, etc...) the code is **B**.

### TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below. The proposed concentrations are indicative, especially for incurred matrix (naturally contaminated) with multiple contamination.

It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
Anthelmintics	Avermectins (ivermectin, abamectin, doramectin, eprinomectin, emamectin, moxidectin), Benzimidazoles (albendazole, flubendazole, febantel, fenbendazole, mebendazole, oxybendazole, thiabendazole), Salicylanilides (closantel, nitroxinil, rafoxamine), levamisole. <i>Levamisole and one avermectine will be present.</i>	muscle < 500 ppb
Tetracyclines	oxytetracycline, chlortetracycline, doxycycline, tetracycline and epimers	eggs: < 400 ppb
Quinolones and fluoroquinolones	enrofloxacin, ciprofloxacin, flumequine, marbofloxacin, danofloxacin, difloxacin, sarafloxacin, nalidixic acid, oxolinic acid, norfloxacin	eggs: < 200 ppb
Macrolides	erythromycin, josamycin, lincomycin, oleandomycin, rifampicin, spiramycin, tilmicosin, tylosin A, tylosin B, virginiamycin	muscle: < 400 ppb
NSAIDs	carprofen, diclofenac, flunixin, 5-hydroxyflunixin, ibuprofen, ketoprofen, meloxicam, naproxen, niflumic acid, oxyphenylbutazone, phenylbutazone, tolfenamic acid, vedaprofen	muscolo: < 300 ppb
Chloramphenicol	chloramfenicol	water: < 6 ppb or blank
$\beta$ -agonists	brombuterol, clenbuterol, cimbuterol, clenpenterol, mabuterol, salbutamol, terbutaline, ractopamina	water: < 6 ppb or blank

# Progetto Trieste - Veterinary Drug Residues 2022 Programme

## ROUND of MAY (see next page too)

Shipping date: May 16th 2022. Result submission deadline: June 20th 2022 and June 10th for Thyrostats.  
Final Report available in July 2022. Order deadline: March 31st 2022

Analytes	Matrix	Status	Code	Quantity	Euro
Synthetic steroids	bovine urine <sup>L10</sup>	incurred or spiked	U2200	A 18ml x 2 Test Materials B 12ml x 2 Test Materials	380,00 290,00
RAL	bovine urine <sup>L10</sup>	incurred	U2201	A 18ml x 2 Test Materials B 6ml x 2 Test Materials	380,00 290,00
Stilbenes	swine or bovine urine <sup>L10</sup>	incurred or spiked	U2202	A 18ml x 2 Test Materials B 6ml x 2 Test Materials	380,00 290,00
β-agonists (ractopamine included)	swine or bovine urine <sup>L10</sup>	incurred or spiked	U2203	A 18ml x 2 Test Materials B 6ml x 2 Test Materials	380,00 290,00
<i>partial participations in U2203</i>					
Only for analysis of β-agonists:			U2203/G	A 18ml x 2 Test Materials B 6ml x 2 Test Materials	330,00 265,00
Only for analysis of ractopamine:			U2203/R	A 18ml x 2 Test Materials B 6ml x 2 Test Materials	330,00 265,00
Corticosteroids	bovine urine <sup>L10</sup>	incurred or spiked	U2204	A 18ml x 2 Test Materials B 6ml x 2 Test Materials	380,00 290,00
Thyrostats	bovine urine <sup>L10</sup>	spiked	U2205	A 18ml x 1 Test Material	380,00

Analysis of synthetic steroids, RAL and stilbenes intended to the homogeneity study have been subcontracted. Test Veritas is responsible of subcontracted activities.

For participating with **confirmatory methods** (HPLC, GC) the code is **A**. Quatification is required.

For participating with **screening methods** (ELISA, RIA, biosensors, microbial inhibition assay, lateral flow, etc...) the code is **B**.

<sup>L10</sup> Lyophilized material. Quantity regards the final quantity after reconstitution. Instructions for reconstitution will be delivered with the test material.

### TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below. In case 2 test materials are provided, one could be blank.  
The proposed concentrations are indicative, especially for incurred matrix (naturally contaminated) with multiple contamination.  
It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
Synthetic steroids	17α-19 nortestosterone, 17β-19 nortestosterone, 17α-boldenone, 17 β-boldenone, 17α-trenbolone, 17β-trenbolone, methyltestosterone, stanozolol	urine: < 6 ppb or blank
RAL	zeranol, taleranol	
Stilbenes	diethylstilbestrol (cis-DES and trans-DES), hexestrol, dienestrol	
β-agonists	brombuterol, clenbuterol, cimbuterol, clenpenterol, mabuterol, salbutamol, terbutaline	
Ractopamine	ractopamine	
Corticosteroids	dexamethasone, betamethasone, flumethasone, prednisolone, prednisone	urine: < 300 ppb
Thyrostats	2-thiouracil, 6-methyl-2-thiouracil, methimazole (tapazole), 6-phenyl-2-thiouracil, 6-propyl-2-thiouracil	

# Progetto Trieste - Veterinary Drug Residues 2022 Programme

## ROUND of MAY (see previous page too)

Shipping date: May 16th 2022. Result submission deadline: June 20th 2022 and June 10th for  $\beta$ -lactams.  
Final Report available in July 2022. Order deadline: March 31st 2022

Analytes	Matrix	Status	Code		Quantity	Euro
Sulphonamides	bovine milk <sup>L10</sup>	spiked	MI2206	A	20ml x 2 Test Materials	330,00
				B	10ml x 2 Test Materials	290,00
Avermectins β-lactams	bovine milk <sup>L10</sup>	spiked	MI2207	A	20ml x 2 Test Materials	450,00
				B	10ml x 2 Test Materials	350,00
partial participations in MI2207						
Only for analysis of avermectins:			MI2207/I	A	20ml x 2 Test Materials	330,00
				B	10ml x 2 Test Materials	290,00
Only for analysis of β-lactams:			MI2207/L	A	20ml x 2 Test Materials	330,00
				B	10ml x 2 Test Materials	290,00
β-lactams	bovine muscle <sup>L10</sup>	spiked	M2208	A	20g x 1 Test Material	330,00
				B	10g x 1 Test Material	290,00
Nitroimidazoles and coccidiostatics	eggs <sup>L10</sup>	spiked or incurred	E2209	A	30g x 1 Test Material	450,00
				B	15g x 1 Test Material	350,00
partial participations in E2209						
Only for analysis of nitroimidazoles:			E2209/N	A	30g x 1 Test Material	330,00
				B	15g x 1 Test Material	290,00
Only for analysis of coccidiostatics:			E2209/C	A	30g x 1 Test Material	330,00
				B	15g x 1 Test Material	290,00
Nitroimidazoles	bovine muscle <sup>L10</sup>	spiked	M2210	A	20g x 1 Test Material	330,00
				B	10g x 1 Test Material	290,00

Analysis of sulphonamides intended to the homogeneity study have been subcontracted. Test Veritas is responsible of subcontracted activities.

For participating with **confirmatory methods** (HPLC, GC) the code is **A**. Quantification is required.

For participating with **screening methods** (ELISA, RIA, biosensors, microbial inhibition assay, lateral flow, etc...) the code is **B**.

<sup>L10</sup> Lyophilized material. Quantity regards the final quantity after reconstitution. Instructions for reconstitution will be delivered with the test material.

### TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below. In case 2 test materials are provided, one could be blank.

The proposed concentrations are indicative, especially for incurred matrix (naturally contaminated) with multiple contamination.

Milk test materials would contain preservative solutions.

It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
Avermectins	ivermectin, abamectin, doramectin, eprinomectin, emamectin, moxidectin	milk: < 60 ppb or blank
$\beta$ -lactams	penicillin V, penicillin G, amoxicillin, ampicillin, cloxacillin, cefapirin, cefalexin, cefazolin, oxacillin	milk: < 60 ppb or blank muscle: < 400 ppb
Sulphonamides	sulfamethazine, sulfadimethoxine, sulfaquinolaxine, sulfamerazine, sulfadiazine, sulfadoxine, sulfamethoxy pyridazine, sulfamethoxazole, sulfamonomethoxine, sulfathiazole	milk: < 400 ppb or blank
Nitroimidazoles	dimetridazole, 2-hydroxy dimetridazole (HMMNI), metronidazole, 2-hydroxy metronidazole, ipronidazole, 2-hydroxy ipronidazole, ronidazole	muscle: < 30 ppb egg: < 20 ppb
Coccidiostatics	nicarbazin (expressed as DNC), robenidine, salinomycin, lasalocid, narasin, maduramycin, monensin, clopidol, diclazuril	egg: < 300 ppb

# Progetto Trieste - Histamine biogenic amines and TVBN - 2022 Programme

## ROUND of SEPTEMBER

Shipping date: September 19th 2022. Result submission deadline: October 24th 2022. Final Report available in November 2022.  
Order deadline: July 29th 2022

Analytes	Matrix	Status	Code		Quantity	Euro
<b>Histamine (3 levels)</b>	<b>tuna<sup>L10</sup></b>	<b>incurred or spiked</b>	<b>T2300H</b>	<b>A</b> <b>B</b>	<b>50g x 3 Test Materials</b> <b>50g x 3 Test Materials</b>	<b>295,00</b> <b>215,00</b>
<b>Histamine (3 levels) and other biogenic amines</b>	<b>tuna<sup>L10</sup></b>	<b>incurred or spiked</b>	<b>T2300BAI</b>	<b>A</b> <b>B</b>	<b>50g x 3 Test Materials</b> <b>50g x 3 Test Materials</b>	<b>385,00</b> <b>290,00</b>
<i>In the PT T2300BAI you will receive 3 evaluations for histamine at different levels of concentration and 1 evaluation for the others biogenic aminines.</i>						
<b>Histamine (3 levels) and TVBN</b>	<b>tuna<sup>L10</sup></b>	<b>incurred or spiked</b>	<b>T2300N</b>	<b>A</b> <b>B</b>	<b>50g x 3 Test Materials</b> <b>50g x 3 Test Materials</b>	<b>385,00</b> <b>290,00</b>
<i>In the PT T2300N you will receive 3evaluations for hista mine at different levels of concentration and 1 evaluation for the Total Volatile Basic Nitrogen.</i>						
<b>Histamine (3 levels) + BAI + TVBN</b>	<b>tuna<sup>L10</sup></b>	<b>incurred or spiked</b>	<b>T2300</b>	<b>A</b> <b>B</b>	<b>100g* x 3 Test Materials</b> <b>100g* x 3 Test Materials</b>	<b>585,00</b> <b>350,00</b>
<i>In the PT T2300 you will receive 3 evaluations for histamine at different levels of concentration, 1 evaluation for the others biogenic aminines and 1 evaluation for Total Volatile Basic Nitrogen.</i>						
<i>*One sample will be used for the analysis of Histamine + BAI + TVBN and will be of 100g, the other sample will be destined only for histamine analysis and will be of 50g.</i>						

For participating with **confirmatory methods** (HPLC, GC) the code is **A**. Quantification is required.

For participating with **screening methods** (ELISA, RIA, biosensors, microbial inhibition assay, lateral flow, etc...) the code is **B**.

<sup>L10</sup> Lyophilized material. Quantity regards the final quantity after reconstitution. Instructions for reconstitution will be delivered with the test material.

### TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below.

The proposed concentrations are indicative, especially for incurred matrix (naturally contaminated) with multiple contamination.

It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
Histamine	histamine	tuna: 50 ppm < Level 1 < 350 ppm Level 2 < 450 ppm Level 3 < 50 ppm
Biogenic amines	histamine, cadaverine, putrescine, spermidine, spermine, tyramine, B.A.I. (Biogenic Amine Index)	tuna: < 400 ppm
TVBN	total volatile basic-nitrogen	tuna: < 400 mg/100g

# Progetto Trieste - Veterinary Drug Residues 2022 Programme

## ROUND of SEPTEMBER (see next page too)

Shipping date: September 19th 2022. Result submission deadline: October 24th 2022. Final Report available in November 2022  
Order deadline: July 29th 2022

Analytes	Matrix	Status	Code	Quantity	Euro
Quinolones and fluoroquinolones	turkey muscle <sup>L10</sup>	incurred or spiked	M2306	A B 20g x 2 Test Materials 10g x 2 Test Materials	330,00 290,00
Tetracyclines	bovine or chicken muscle <sup>L10</sup>	incurred or spiked	M2302	A B 20g x 2 Test Materials 10g x 2 Test Materials	330,00 290,00
Sulphonamides	swine muscle <sup>L10</sup>	incurred or spiked	M2303	A B 20g x 2 Test Materials 10g x 2 Test Materials	330,00 290,00
Macrolides	eggs <sup>L10</sup>	spiked	E2309	A B 30g x 1 Test Material 15g x 1 Test Material	330,00 290,00
NSAIDs	bovine milk <sup>L10</sup>	spiked	MI2311	A 20ml x 1 Test Material	330,00

Analysis of sulphonamides intended to the homogeneity study have been subcontracted. Test Veritas is responsible of subcontracted activities.

For participating with **confirmatory methods** (HPLC, GC) the code is **A**. Quantification is required.

For participating with **screening methods** (ELISA, RIA, biosensors, microbial inhibition assay, lateral flow, etc...) the code is **B**.

<sup>L10</sup> Lyophilized material. Quantity regards the final quantity after reconstitution. Instructions for reconstitution will be delivered with the test material.

## TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below. In case 2 test materials are provided, one could be blank.

The proposed concentrations are indicative, especially for incurred matrix (naturally contaminated) with multiple contamination.

It is not requested to research all the molecules of each group.

Milk test materials would contain preservative solutions.

Category	List of molecules	Indicative concentrations
Quinolones and fluoroquinolones	enrofloxacin, ciprofloxacin, flumequine, marbofloxacin, danofloxacin, sarafloxacin, nalidixic acid, oxolinic acid, norfloxacin, difloxacin	muscle: < 400 ppb or blank
Tetracyclines	oxytetracycline, chlortetracycline, doxycycline, tetracycline and epimers	muscle: < 400 ppb or blank
Sulphonamides	sulfamethazine, sulfadimethoxine, sulfaquinoxaline, sulfamerazine, sulfadiazine, sulfadoxine, sulfamethoxypyridazine, sulfamethoxazole, sulfamonomethoxine, sulfathiazole	muscle: < 300 ppb or blank
Macrolides	erythromycin, josamycin, lincomycin, oleandomycin, rifampicin, spiramycin, tilmicosin, tylosin A, tylosin B, virginiamycin	egg: < 300 ppb
NSAIDs	carprofen, diclofenac, flunixin, 5-hydroxyflunixin, ibuprofen, ketoprofen, meloxicam, naproxen, niflumic acid, oxyphenylbutazone, phenylbutazone, tolfenamic acid, vedaprofen	milk: < 80 ppb



# Progetto Trieste - Veterinary Drug Residues 2022 Programme

## ROUND of SEPTEMBER (see previous page too)

Shipping date: September 19th 2022. Result submission deadline: October 24th 2022. Final Report available in November 2022.  
Order deadline: July 29th 2022

Analytes	Matrix	Status	Code	Quantity	Euro
Chloramphenicol	fish and shrimps <sup>L10</sup>	spiked	SF2304	A B 20g x 2 Test Materials 10g x 2 Test Materials	330,00 290,00
Nitrofurantol metabolites	fish and shrimps <sup>L10</sup>	spiked	SF2305	A B 20g x 2 Test Materials 10g x 2 Test Materials	330,00 290,00
Quinolones and fluoroquinolones	fish <sup>L10</sup>	spiked	SF2307	A B 20g x 1 Test Material 10g x 1 Test Material	330,00 290,00
Tetracyclines	fish <sup>L10</sup>	spiked	SF2301	A B 20g x 1 Test Material 10g x 1 Test Material	330,00 290,00
Macrolides	fish <sup>L10</sup>	spiked	SF2310	A B 25g x 1 Test Materials 10g x 1 Test Materials	330,00 290,00
Avermectins	fish <sup>L10</sup>	spiked	SF2312	A B 20g x 1 Test Materials 10g x 1 Test Materials	330,00 290,00
Illegal dyes	fish <sup>L10</sup>	spiked	SF2308	A B 20g x 2 Test Materials 10g x 2 Test Materials	330,00 290,00

For participating with confirmatory methods (HPLC, GC) the code is A. Quantification is required,

For participating with screening methods (ELISA, RIA, biosensors, microbial inhibition assay, lateral flow, etc...) the code is B.

<sup>L10</sup> Lyophilized material. Quantity regards the final quantity after reconstitution. Instructions for reconstitution will be delivered with the test material.

### TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below. In case 2 test materials are provided, one could be blank.

The proposed concentrations are indicative, especially for incurred matrix (naturally contaminated) with multiple contamination.

It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
Quinolones and fluoroquinolones	enrofloxacin, ciprofloxacin, flumequine, marbofloxacin, danofloxacin, sarafloxacin, nalidixic acid, oxolinic acid, norfloxacin, difloxacin	fish: < 800 ppb
Tetracyclines	oxytetracycline, chlortetracycline, doxycycline, tetracycline and epimers	fish: < 400 ppb
Macrolides	erythromycin, josamycin, lincomycin, oleandomycin, rifampicin, spiramycin, tilimicosin, tylosin A, tylosin B, virginiamycin	fish: < 400 ppb
Chloramphenicol	chloramphenicol	fish and shrimps: < 2 ppb or blank
Nitrofurantol metabolites	AOZ, AMOZ, SEM, AHD	fish and shrimps: < 4 ppb or blank
Avermectins	ivermectin, abamectin, doramectin, eprinomectin, emamectin, moxidectin	fish: < 300 ppb
Illegal dyes	malachite green, leucomalachite green and the sum of both, crystal violet, leucocrystal violet and the sum of both, brilliant green. Total Illegal Dyes.	fish: < 8 ppb or blank

# Progetto Trieste - Veterinary Drug Residues 2022 Programme

## ROUND of NOVEMBER (see next page too)

Shipping date: November 21st 2022. Result submission deadline: December 27th 2022 and December 16th for  $\beta$ -lactams.  
Final Report available in January 2023. Order deadline: October 7th 2022

Analytes	Matrix	Status	Code	Quantity	Euro
$\beta$ -agonists (ractopamine included)	bovine liver <sup>L10</sup>	incurred or spiked	L2400	A 20g x 2 Test Materials B 10g x 2 Test Materials	360,00 290,00
<i>partial participations in L2400</i>					
Only for analysis of $\beta$ -agonists:			L2400/G	A 20g x 2 Test Materials B 10g x 2 Test Materials	330,00 265,00
Only for analysis of ractopamine:			L2400/R	A 20g x 2 Test Materials B 10g x 2 Test Materials	330,00 265,00
Corticosteroids	bovine liver <sup>L10</sup>	incurred or spiked	L2401	A 20g x 2 Test Materials B 10g x 2 Test Materials	330,00 290,00
Tetracyclines	bovine liver <sup>L10</sup>	spiked	L2405	A 20g x 1 Test Material B 10g x 1 Test Material	330,00 290,00
Coccidiostatics	chicken or turkey <sup>L10</sup> muscle	incurred or spiked	M2406	A 20g x 1 Test Material B 10g x 1 Test Material	330,00 290,00
Stilbenes	chicken muscle <sup>L10</sup>	spiked	M2408	A 20g x 1 Test Material B 10g x 1 Test Material	330,00 290,00
$\beta$ -lactams	fish <sup>L10</sup>	spiked	SF2407	A 20g x 1 Test Material B 10g x 1 Test Material	330,00 290,00
Progesterone	bovine serum <sup>L10</sup>	spiked	SE2409	A 5ml x 2 Test Material	330,00

For participating with confirmatory methods (HPLC, GC) the code is A. Quantification is required.

For participating with screening methods (ELISA, RIA, biosensors, microbial inhibition assay, lateral flow, etc...) the code is B.

<sup>L10</sup> Lyophilized material. Quantity regards the final quantity after reconstitution. Instructions for reconstitution will be delivered with the test material.

## TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below. In case 2 test materials are provided, one could be blank.  
The proposed concentrations are indicative, especially for incurred matrix (naturally contaminated) with multiple contamination.  
It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
$\beta$ -agonists	brombuterol, clenbuterol, cimbuterol, clenpenterol, mabuterol, salbutamol, terbutaline	liver: < 7 ppb or blank
Ractopamine	ractopamine	
Corticosteroids	dexamethasone, betamethasone, flumethasone, prednisolone, prednisone	liver: < 8 ppb or blank
Tetracyclines	oxytetracycline, chlortetracycline, doxycycline, tetracycline and epimers	liver: < 500 ppb
Coccidiostatics	nicarbazin (expressed as DNC), robenidine, salinomycin, lasalocid, narasin, maduramycin, monensin, clopidol, diclazuril	muscle: < 80 ppb
Stilbenes	diethylstilbestrol (cis-DES and trans-DES), hexestrol, dienestrol	muscle: < 6 ppb
$\beta$ -lactams	penicillin V, penicillin G, amoxicillin, ampicillin, cloxacillin, cefapirin, cefalexin, cefazolin, oxacillin	fish: < 300 ppb
Progesterone	progesterone	serum: < 8 ppb

# Progetto Trieste - Veterinary Drug Residues 2022 Programme

## ROUND of NOVEMBER (see previous page too)

Shipping date: November 21st 2022. Result submission deadline: December 27th 2022

Final Report available in January 2023. Order deadline: October 7th 2022

Analytes	Matrix	Status	Code		Quantity	Euro
Sulphonamides and Chloramphenicol	light honey	spiked	H2402	A	30g x 2 Test Materials	450,00
				B	10g x 2 Test Materials	330,00
partial participations in H2402						
Only for analysis of sulphonamides:		H2402/S	A	30g x 2 Test Materials	330,00	
			B	10g x 2 Test Materials	255,00	
Only for analysis of chloramphenicol:		H2402/C	A	30g x 2 Test Materials	330,00	
			B	10g x 2 Test Materials	255,00	
Quinolones/Fluoroquinolones and Nitroimidazoles	light honey	spiked	H2403	A	30g x 2 Test Materials	450,00
				B	10g x 2 Test Materials	330,00
partial participations in H2403						
Only for analysis of quinolones and fluoroquinolones:		H2403/Q	A	30g x 2 Test Materials	330,00	
			B	10g x 2 Test Materials	255,00	
Only for analysis of nitroimidazoles:		H2403/N	A	30g x 2 Test Materials	330,00	
			B	10g x 2 Test Materials	255,00	
Tylosin	light honey	spiked	H2404	A	30g x 1 Test Material	330,00
				B	10g x 1 Test Material	255,00
Streptomycin and Tetracyclines	light honey	spiked	H2410	A	30g x 2 Test Materials	450,00
				B	10g x 2 Test Materials	330,00
partial participations in H2410						
Only for analysis of streptomycin:		H2410/M	A	30g x 2 Test Materials	330,00	
			B	10g x 2 Test Materials	255,00	
Only for analysis of tetracyclines:		H2410/T	A	30g x 2 Test Materials	330,00	
			B	10g x 2 Test Materials	255,00	

Analysis of sulphonamides intended to the homogeneity study have been subcontracted. Test Veritas is responsible of subcontracted activities.

For participating with confirmatory methods (HPLC, GC) the code is A. Quantification is required.

For participating with screening methods (ELISA, RIA, biosensors, microbial inhibition assay, lateral flow, etc...) the code is B.

## TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below. In case 2 test materials are provided, one could be blank.

The proposed concentrations are indicative, especially for incurred matrix (naturally contaminated) with multiple contamination.

It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
Sulphonamides	sulfamethazine, sulfadimethoxine, sulfaquinoxaline, sulfamerazine, sulfadiazine, sulfadoxine, sulfamethoxypyridazine, sulfamethoxazole, sulfamonomethoxine, sulfathiazole	honey: < 100 ppb or blank
Chloramphenicol	chloramphenicol	honey: < 3 ppb or blank
Quinolones and fluoroquinolones	enrofloxacin, ciprofloxacin, flumequine, marbofloxacin, danofloxacin, sarafloxacin, nalidixic acid, oxolinic acid, norfloxacin	honey: < 100 ppb or blank
Nitroimidazoles	dimetridazole, 2-hydroxy dimetridazole (HMMNI), metronidazole, 2-hydroxy metronidazole, ipronidazole, 2-hydroxy ipronidazole, ronidazole	honey: < 15 ppb or blank
Tylosin	Tylosin A, Tylosin B, Total Tylosin	honey: < 100 ppb
Streptomycin	streptomycin, dihydrostreptomycin	honey: < 100 ppb or blank
Tetracyclines	oxytetracycline, chlortetracycline, doxycycline, tetracycline and epimers	honey: < 100 ppb or blank

## Further Proficiency Testing ... in 2023

We want to evidence you in this preview some proficiency testing that were not present in the 2022 programme but will be present in 2023.

### ROUND OF MARCH 2023

Analytes	Matrix
In this round there will be proposed similar codes to the ones proposed in 2022 and in addition:	
<b>Nitrofurans Metabolites</b>	<b>eggs</b>
<b>Nitroimidazoles</b>	<b>milk</b>
<b>Anthelmintics</b>	<b>liver</b>
<i>and much more....</i>	

### ROUND OF SEPTEMBER 2023

Analytes	Matrix
In this round there will be proposed similar codes to the ones proposed in 2022 and in addition:	
<b>Sulphonamides</b>	<b>fish or shrimps</b>
<i>and much more....</i>	

### ROUND OF NOVEMBER 2023

Analytes	Matrix
In this round there will be proposed similar codes to the ones proposed in 2022 and in addition:	
<b>Sulphonamides</b>	<b>liver</b>
<b>Nitrofurans Metabolites</b>	<b>honey</b>
<i>and much more....</i>	



# Progetto Trieste - Pesticide Residues 2022 Programme

The quantification is requested. Evaluation will be in z-score terms.

In each participation they are included the evaluations of 2 technicians.

## ROUND of OCTOBER (see next page too)

Shipping date: October 17th 2022. Result submission deadline: November 21st 2022. Final Report available in January 2023.  
Order deadline: September 9th 2022

Analytes	Matrix	Status	Code	Quantity	Euro
<b>Pesticides (fosetyl-aluminium and others)</b>	<b>spinach<sup>L10</sup></b>	<b>spiked</b>	<b>VF2700</b>	<b>60g x 1 Test Material</b>	<b>400,00</b>
<i>partial participation in VF2700</i>					
Only for analysis of fosetyl-aluminium: VF2700/F				60g x 1 Test Material	220,00
Only for analysis of pesticides excluding fosetyl-aluminium: VF2700/P				60g x 1 Test Material	220,00
Pesticides (blank sample)	spinach <sup>L10</sup>	blank	VF2700blank	60g x 1 Test Material	59,00
<b>Pesticides (piretroids and others)</b>	<b>fish<sup>L10</sup></b>	<b>spiked</b>	<b>SF2701</b>	<b>50g x 1 Test Material</b>	<b>290,00</b>
Pesticides (blank sample)	fish <sup>L10</sup>	blank	SF2701blank	50g x 1 Test Material	59,00
<b>Pesticides (fipronil and others)</b>	<b>eggs<sup>L10</sup></b>	<b>spiked</b>	<b>E2702</b>	<b>40g x 1 Test Material</b>	<b>290,00</b>
Pesticides (blank sample)	eggs <sup>L10</sup>	blank	E2702blank	40g x 1 Test Material	59,00
<b>Pesticides (glyphosate and others)</b>	<b>honey</b>	<b>spiked</b>	<b>H2703</b>	<b>70g x 1 Test Material</b>	<b>290,00</b>
Pesticides (blank sample)	honey	blank	H2703blank	70g x 1 Test Material	59,00
<b>Pesticides</b>	<b>milk<sup>L10</sup></b>	<b>spiked</b>	<b>MI2704</b>	<b>200ml x 1 Test Material</b>	<b>220,00</b>
Pesticides (blank sample)	milk <sup>L10</sup>	blank	MI2704blank	200ml x 1 Test Material	59,00

Analysis of pesticides intended to the homogeneity study have been subcontrad.

Test Veritas is responsible of subcontracted activities.

<sup>L10</sup>Lyophilized material. Quantity regards the final quantity after reconstitution. Instructions for reconstitution will be delivered with the test material.

# Progetto Trieste - Pesticide Residues 2022 Programme

## TECHNICAL ASPECTS

Each test material may contain more than one of the substances from the table below.

It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
Pesticides in spinach	<p>2-Phenylphenol (ortho-phenylphenol), Acephate, Acetamiprid, Acetochlor, Acrinathrin, Aldicarb, Aldicarb-sulfone (aldoxycarb), Aldicarb-sulfoxide, Allethrin, Atrazine, Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Benalaxyl, Bendiocarb, Bifenthrin, Biphenyl, Bitertanol, Boscalid, Bromophos-ethyl, Bromopropylate, Bromuconazole, Bupirimate, Buprofezin, Cadusafos, Captan, Carbaryl, Carbendazim, Carbofuran, Carbofuran(3-hydroxy), Carboxin, Chlorantraniliprole (rynaxypyr), Chlordane (cis e trans) Chlordane (sum of cis- and trans-chlordane), Chlorfenapyr, Chlorfenvinphos, Chloridazon, Chlorobenzilate, Chlorothalonil, Chlorpropham, Chlorpyrifos (ethyl), Chlorpyrifos-methyl, Chlorthal-dimethyl, Clofentezine, Clomazone, Clothianidin, Cyazofamid, Cyflufenamid, Cyfluthrin (sum of constituent isomers), Cyhalothrin-lambda, Cymoxanil, Cypermethrin (sum of constituent isomers), Cyproconazole, Cyprodinil, Cyromazine, Coumaphos, Demeton-s-methyl, Demeton-S-methyl-sulfon, Desmethyl-pirimicarb, Difenathiuron, Diazinon, Dichlorvos, Dicloran, Dicofof, Diclobutrazol, Dicrotophos, Dieldrin, Diethofencarb, Difenoconazole, Diflubenzuron, Dimethenamid, Dimethoato, Dimehtomorph, Diniconazole, Diphenylamine, Disulfoton, Disulfoton-sulfoxide, Disulfoton-sulfone, Dodine, Diuron, Endosulfan (alpha and beta), Endosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expresses as endosulfan) Endosulfan-sulfate, Endrin, Epoxiconazole, Ethiofencarb, Etofenprox, Ethion, Ethirimol, Ethoprophos, Etoxazole, Etrinfos, Famoxadone, Fenamidone, Fenamiphos, Fenamiphos-sulfoxide, Fenamiphos-sulfone, Fenarimol, Fenitrothion, Fenazaquin, Fenbuconazole, Fenhexamid, Fenoxaprop-p-ethyle, Fenoxycarb, Fenpropathrin, Fenpropidin, Fenpropimorph, Fenpyroximate, Fensulfothion, Fention, Fenvalerate, Fipronil-sulfone, Flonicamid, Flucythrinate, Fluazifop-p-butyl, Fluazinam, Fludioxonil, Flufenoxuron, Fluopicolide, Fluopyram, Fluquinconazol, Flusilazole, Flutriafol, Fluvalinate (tau), Fosetyl-Al (sum of fosetyl, phosphonic acid and their salts, expressed as fosetyl), Fosetyl (ethyl hydrogen phosphonate), Phosphorous acid and its salts expressed as phosphorous acid, Formothion, Fosthiazate, Fuberidazole, Flufenacet, Furathiocarb, HCB (hexachlorobenzene), HCH-A (alpha hexachlorocyclohexane) Heptachlor, Heptachlor-epoxide (cis e trans), Heptachlor (sum of heptachlor and heptachlo epoxide expressed as heptachlor) Heptenophos, Hexaconazole, Haloxifop-2 ethoxyethyl, Haloxifop-p-methyl, Hexythiazox, Imazalil, Imidacloprid, Indoxacarb, Iprodion, Iprovalicarb, Isofenphos-ethyl, Isofenphos-methyl, Isoprotruron, Isoxaben, Kresoxim-methyl, Lenacil, Linuron, Lufenuron, Malaaxon, Malathion, Mandipropamid, Mecarbam, Mepanipyrim, Metalaxyl, Methamidophos, Metamitron, Metconazole, Metazachlor, Methiocarb, Methiocarb sulfoxide, Methomyl, Methoxychlor, Methoxyfenozide, Metolachlor, Metrafenone, Metribuzin, Mevinphos, Monocrotophos, Monolinuron, Myclobutanil, Nuairimol, Omethoate Oxadiazon, Oxadixyl, Oxamyl, Oxyfluorfen, Oxycarboxin, Oxydemeton-methyl, Paclobutrazol, Pencycuron, Penconazole, Pendimethalin, Permethrin, Phenthoate, Phorate, Phosalone, Phosmet, Phosphamidon, Piperonyl-butoxide, Pyraclostrobin, Pyridaben, Pyrifenoxy, Pyrimethanil, Pirimicarb, Pirimiphos-ethyl, Pirimiphos-methyl, Pyriproxyfen, Prochloraz, Procymidone, Profenofos, Promecarb, Prometon, Prometryn, Propamocarb, Propargite, Propaquizafop, Propazine, Propiconazole, Propyzamide, Propoxur, Prosulfocarb, Prothiofos, Pymetrozine, Quinalphos, Quinoxifen, Quintozene, Quizalofop-ethyl, Spinetoram, Spinosad (A and D), Spirodiclofen, Spiromesifen, Spirotetramat, Spiroxamine, Sulfotep, Tebuconazole, Tebufenozide, Tebufenpyrad, Tecnazene, Teflubenzuron, Tefluthrin, Terbufos, Terbutryn, Terbutylazine, Terbutryn, Tetraconazole, Tetrachlorvinphos, Tetradifon, Tetramethrin, Thiabendazole, Thiachloprid, Thiamethoxam, Thiodicarb, Tolclofos-methyl, Tolyfluanid, Thiophanate methyl, Triadimenol, Triazophos, Tricyclazole, Trichlorphon, Triadimefon, Trifloxystrobin, Triflumuron, Trifluralin, Triticonazole, Vamidothion, Vinclozolin, Zoxamide.</p> <p>At least 8 molecules will be present. Fosetyl Aluminium, Coumaphos, Acephate and Vinclozolin presences are guaranteed.</p>	< 300 ppb
Pesticides in fish, milk and eggs	<p>Aldrin, Azinphos-ethyl, Bifenthrin, Chlordane (cis), Chlordane (oxy), Chlordane (trans), Chlorfenvinphos (sum of E and Z isomers), Chlorpyrifos (ethyl), Chlorpyrifos-methyl, Cyfluthrin (sum of constituent isomers), Cyhalothrin-lambda, Cypermethrin (sum of constituent isomers), DDD-pp (TDE), DDE-pp, DDT-op, DDT-pp, Deltamethrin, Diazinon, Dieldrin, Endosulfan I (alpha), Endosulfan II (beta), Endosulfan-sulfate, Endrin, Famoxadone, Fenthion (parent), Fenvalerate (sum of constituent isomers in any ratio including esfenvalerate), HCB (hexachlorobenzene), HCH-A (alpha hexachlorocyclohexane), HCH-B (beta hexachlorocyclohexane), HCH-G (gamma hexachlorocyclohexane / lindane), Heptachlor, Heptachlor-epoxide (cis), Heptachlor-epoxide (trans), Indoxacarb (sum of indoxacarb and its R enantiomer), Methidathion, Methoxychlor, Parathion (ethyl), Parathion-methyl, Pendimethalin, Permethrin (sum of isomers), Pirimiphos-methyl, Profenofos, Pyrazophos, Quintozene, Spinosad (sum of Spinosyn A and D), Tecnazene, Triazophos, Vinclozolin, PCB 28, PCB 52, PCB 101, PCB 118, PCB 138, PCB 153, PCB 180, abamectin (sum of avermectin B1a and B1b only), Amitraz (sum of amitraz and all metabolites containing the 2,4-DMA moiety), Dichlorvos, Etoxazole, Fipronil (parent), Fipronil-desulfinyl, Fipronil-sulfone, Flufenoxuron, Pyridaben, Pyriproxyfen, Thiamethoxam</p> <p>At least 4 molecules will be present. In eggs, Fipronil, Aldrin and cis-Chlordane presences are guaranteed. In fish, Cypermethrin and Dieldrin presences are guaranteed. In milk, Aldrin and Endosulfan I (alfa) presences are guaranteed.</p>	< 300 ppb
Pesticides in honey	<p>Acetamiprid, Amitraz (sum of amitraz and all metabolites containing the 2,4-DMA moiety), Clothianidin, Coumaphos, Dinotefuran, DMF (N-2,4-dimethylformamide), DMPF (N-2,4-dimethylphenylformamide), Fluvalinate (tau), Glyphosate, Aminomethylphosphonic acid (AMPA), Imidacloprid, Nitenpyram, Thiachloprid, Thiamethoxam</p> <p>5 molecules will be present. Glyphosate, Coumaphos and at least 1 neonicotinoid presences are guaranteed.</p>	< 300 ppb

# Progetto Trieste - Metals 2022 Programme

The quantification is requested. Evaluation will be in z-score terms.

In each participation they are included the evaluations of 2 technicians.

## ROUND of OCTOBER (see next page too)

Shipping date: October 17th 2022. Result submission deadline: November 21st 2022. Final Report available in January 2023.  
Order deadline: September 9th 2022

Analytes	Matrix	Status	Code	Quantity	Euro
Mercury/Lead/Cadmium	spinach <sup>L10</sup>	spiked	VF2705	50g x 1 Test Material	220,00
Mercury/Lead/ Cadmium/Arsenic	bovine muscle <sup>L10</sup>	spiked	M2706	40g x 1 Test Material	220,00
Mercury/Lead/ Cadmium/Arsenic	milk <sup>L10</sup>	spiked	MI2707	200ml x 1 Test Material	220,00
Mercury/Methylmercury/ Lead/Cadmium/Arsenic/ Chromium	fish <sup>L10</sup>	spiked or incurred	SF2708	50g x 1 Test Material	220,00
Lead/Cadmium	honey	spiked	H2709	40g x 1 Test Material	220,00
Arsenic/Cadmium/ Iron Lead/Tin	fruit juice	spiked	VF2710	50ml x 1 Test Material	220,00

Analysis of metals intended to the homogeneity study have been subcontracted.

Test Veritas is responsible of subcontracted activities.

<sup>L10</sup>Lyophilized material. Quantity regards the final quantity after reconstitution. Instructions for reconstitution will be delivered with the test material.

## TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below.  
It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
Metals	In vegetables, muscle, milk, honey and fruit juice all molecules will be present. In fish, at least 4 of the molecules will be present.	
	Lead	vegetable: < 500 ppb fish, muscle: < 1 ppm fruit juice, honey: < 300 ppb milk: < 100 ppb
	Cadmium	vegetable: < 500 ppb fish, muscle: < 1 ppm fruit juice, honey: < 300 ppb milk: < 100 ppb
	Mercury (total)	vegetable: < 500 ppb muscle: < 2 ppm milk: < 100 ppb
	Mercury (total) and Methylmercury	fish: < 2 ppm or blank
	Arsenic (total)	fish, muscle: < 3 ppm fruit juice: < 1 ppm milk: < 100 ppb
	Iron	fruit juice: < 30 ppm
	Tin	fruit juice: < 250 ppm
	Chromium	fish: < 1 ppm

# Progetto Trieste - Additives 2022 Programme

The quantification is requested. Evaluation will be in z-score terms.

In each participation they are included the evaluations of 2 technicians.

## ROUND of SEPTEMBER

Shipping date: September 19th 2022. Result submission deadline: October 24th 2022. Final Report available in November 2022  
Order deadline: July 29th 2022

Analytes	Matrix	Status	Code	Quantity	Euro
Natamycin	hard cheese	spiked	CE2313	30g x 1 Test Material	290,00

## ROUND of OCTOBER

Shipping date: October 17th 2022. Result submission deadline: November 21st 2022 and November 14th for M2712.  
Final Report available in January 2023. Order deadline: September 9th 2022

Analytes	Matrix	Status	Code	Quantity	Euro
Nitrate	spinach <sup>LIO</sup>	spiked/ incurred	VF2711	70g x 1 Test Material	220,00
Nitrate/Nitrite	milk powder	spiked	MI2712	20g x 1 Test Material	220,00
Sulphites	shrimps <sup>LIO</sup>	spiked	SF2713	40g x 1 Test Material	220,00

Analysis of additives intended to the homogeneity study have been subcontracted.

Test Veritas is responsible of subcontracted activities.

<sup>LIO</sup>Lyophilized material. Quantity regards the final quantity after reconstitution. Instructions for reconstitution will be delivered with the test material.

## TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below.  
It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
Nitrates/Nitrites	sodium nitrate, NO <sub>3</sub> <sup>-</sup> sodium nitrite, NO <sub>2</sub> <sup>-</sup>	milk: < 4000 ppm spinachs (only nitrate) : < 6000 ppm
Sulphites	sodium sulphite (E221) and potassium sulphite (E225)	shrimps: < 900 ppm
Natamycin	natamycin	milk: < 15ppm

## in 2023

Nitrate/Nitrite	meat products <sup>LIO</sup>	spiked
Sulphites	meat products <sup>LIO</sup>	spiked



# Progetto Trieste - Mycotoxins and Acrylamide 2022 Programme

Those proficiency tests could distinguish between participations with confirmatory methods (i.e. HPLC, GC) or screening methods (ELISA, RIA, biosensors, microbial inhibition assays, lateral flow, etc...).

For participating with **confirmatory methods** the code is **A** and quantification is requested. Evaluation of performance will be in z-score terms.

For participating with **screening methods** the code is **B** and quantification is optional. Qualitative results will be assessed by dedicated criteria (see *Evaluation Criteria* at [www.testveritas.com](http://www.testveritas.com)).

When the shipment includes **2 test materials**, they are at a different concentration of analyte. The laboratory will receive an evaluation for each test material.

**Each participation includes the evaluations of 2 technicians.**

## ROUND of MARCH

Shipping date: March 14th 2022. Result submission deadline: April 19th 2022. Final Report available in May 2022.

Order deadline: January 31st 2022

Analytes	Matrix	Status	Code	Quantity	Euro
Aflatoxin M <sub>1</sub>	fresh cheese and hard cheese	spiked	CE2111	A 50g x 2 Test Materials	260,00
				B 50g x 2 Test Materials	190,00

## ROUND of JUNE (see next page too)

Shipping date: June 20th 2022. Result submission deadline: July 25th 2022. Final Report available in September 2022.

Order deadline: May 9th 2022

Analytes	Matrix	Status	Code	Quantity	Euro
Aflatoxins B/G	hazelnuts <sup>s</sup>	incurred	N2501	A 50g x 1 Test Material	260,00
				B 50g x 1 Test Material	190,00
Ochratoxin A	green coffee <sup>s</sup> and cocoa <sup>s</sup>	incurred	GC+C 2502	A 55g x 2 Test Materials	260,00
				B 55g x 2 Test Materials	190,00
Patulin	apple juice (clear)	spiked	VF2504	A 50ml x 1 Test Material	260,00

Analytes	Matrix	Status	Code	Quantity	Euro
Acrylamide	bread	incurred	B2505	A 40g x 1 Test Material	250,00
				B 20g x 1 Test Material	190,00
Acrylamide	roasted coffee	incurred	RC2506	A 40g x 1 Test Material	250,00
				B 20g x 1 Test Material	190,00
Acrylamide	potato chips	incurred	in 2023		

Analysis of patulin and aflatoxins B&G intended to the homogeneity study have been subcontracted.

<sup>s</sup>Material has been irradiated. The irradiation process has been subcontracted.

Test Veritas is responsible of subcontracted activities.

## TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below.

The proposed concentrations are indicative, specially for incurred matrix (naturally contaminated) with multiple contamination.

It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
Aflatoxins B/G	aflatoxins B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> , G <sub>2</sub> and/or total aflatoxins	nuts: < 40 ppb
Ochratoxin A	ochratoxin A	coffee, cocoa: < 30 ppb
Patulin	patulin	apple juice: < 150 ppb
Aflatoxin M <sub>1</sub>	aflatoxin M <sub>1</sub>	cheese: < 600 ppt
Acrylamide	acrylamide	bread: < 500 ppb roasted coffee: < 1 ppm

# Progetto Trieste - Mycotoxins 2022 Programme

Those proficiency tests could distinguish between participations with confirmatory methods (HPLC-GC) or screening methods (ELISA, RIA, biosensors, microbial inhibition assays, lateral flow, etc...).

For participating with **confirmatory methods** the code is **A** and quantification is requested. Evaluation of performance will be in z-score terms.

For participating with **screening methods** the code is **B** and quantification is optional. Qualitative results will be assessed by dedicated criteria (see *Evaluation Criteria* at [www.testveritas.com](http://www.testveritas.com)).

**Each participation includes the evaluations of 2 technicians.**

## ROUND of JUNE (see previous page too)

Shipping date: June 20th 2022. Result submission deadline: July 25th 2022. Final Report available in September 2022.

Order deadline: May 9th 2022

Analytes	Matrix	Status	Code		Quantity	Euro
Aflatoxins B/G Fumonisin Ochratoxin A	maize flour <sup>s</sup>	incurred	MA2500	A	80g x 1 Test Material	420,00
				B	40g x 1 Test Material	370,00
partial participations in MA2500						
Only for the analysis of aflatoxins:		MA2500/Y	A	80g x 1 Test Material	260,00	
			B	40g x 1 Test Material	190,00	
Only for the analysis of fumonisins:		MA2500/F	A	80g x 1 Test Material	260,00	
			B	40g x 1 Test Material	190,00	
Only for the analysis of ochratoxin A:		MA2500/O	A	80g x 1 Test Material	260,00	
			B	40g x 1 Test Material	190,00	
For the analysis of aflatoxins and fumonisins:		MA2500/YF	A	80g x 1 Test Material	330,00	
			B	40g x 1 Test Material	250,00	
For the analysis of aflatoxins and ochratoxin A:		MA2500/YO	A	80g x 1 Test Material	330,00	
	B		40g x 1 Test Material	250,00		
For the analysis of fumonisins and ochratoxin A:	MA2500/FO	A	80g x 1 Test Material	330,00		
		B	40g x 1 Test Material	250,00		
DON and ZON	maize flour <sup>s</sup>	incurred	MA2503	A	55g x 1 Test Material	330,00
				B	55g x 1 Test Material	250,00
partial participations in MA2503						
				A	55g x 1 Test Material	260,00
					B	55g x 1 Test Material
				A	55g x 1 Test Material	260,00
					B	55g x 1 Test Material
Aflatoxins B/G, DON, ZON, Fumonisin Ochratoxin A (all will be present)	maize flour <sup>s</sup>	incurred	MA2500 + MA2503	A	2 Test Materials	750,00
				B	2 Test Materials	600,00

<sup>s</sup>Analysis of aflatoxins B&G and fumonisins intended to the homogeneity study have been subcontracted.

<sup>s</sup>Material has been irradiated. The irradiation process has been subcontracted.

Test Veritas is responsible of subcontracted activities.

## TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below.

The proposed concentrations are indicative, especially for incurred matrix (naturally contaminated) with multiple contamination.

It is not requested to research all the molecules of each group.

Category	List of molecules	Indicative concentrations
Aflatoxins B/G	aflatoxins B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> , G <sub>2</sub> and/or total aflatoxins	maize: < 50 ppb
Fumonisin	fumonisin B <sub>1</sub> , B <sub>2</sub> and/or sum (B <sub>1</sub> +B <sub>2</sub> )	maize: < 6000 ppb
Ochratoxin A	ochratoxin A	maize: < 30 ppb
DON	deoxynivalenol	maize: < 6000 ppb
ZON	zearalenone	maize: < 500 ppb

Due to the test materials features, the programme could have some modifications during the year.

The updated programme is available at [www.testveritas.com](http://www.testveritas.com)

Progetto Trieste c/o Test Veritas Srl (Italy) Tel. +39 049 8256292 [info@progettotrieste.com](mailto:info@progettotrieste.com)

# Progetto Trieste - Mycotoxins 2022 Programme

Those proficiency tests could distinguish between the participation with confirmatory methods (HPLC-GC) or screening methods (ELISA, RIA, biosensors, microbial inhibition assays, lateral flow, etc...).

For participation with **confirmatory methods** the code is **A** and quantification is requested. Evaluation of performance will be in z-score terms.

For participation with **screening methods** the code is **B** and quantification is optional. Qualitative results will be assessed by dedicated criteria (see *Evaluation Criteria* at [www.testveritas.com](http://www.testveritas.com)).

When the shipment includes **2 test materials**, they are at a different concentration of analyte. The laboratory will receive an evaluation for each test material.

**Each participation includes the evaluations of 2 technicians.**

## ROUND of OCTOBER

Shipping date: October 17th 2022. Result submission deadline: November 21st 2022. Final Report available in January 2023.

Order deadline: September 9th 2022

Analytes	Matrix	Status	Code		Quantity	Euro
Aflatoxin M <sub>1</sub>	bovine milk <sup>L10</sup>	incurred and spiked	MI2600	A	110ml x 2 Test Materials	260,00
				B	20ml x 2 Test Materials	165,00
Aflatoxins B/G and Ochratoxin A	feed <sup>s</sup>	incurred	F2602	A	55g x 1 Test Material	330,00
				B	55g x 1 Test Material	250,00
partial participations in F2602						
Only for the analysis of aflatoxins B/G:			F2602/Y	A	55g x 1 Test Material	260,00
				B	55g x 1 Test Material	190,00
Only for the analysis of Ochratoxin A:			F2602/O	A	55g x 1 Test Materia	260,00
				B	55g x 1 Test Material	190,00
DON and T-2 & HT-2	wheat <sup>s</sup>	incurred	WH2603	A	55g x 1 Test Material	330,00
				B	55g x 1 Test Material	250,00
partial participations in WH2603						
Only for the analysis of DON:			WH2603/D	A	55g x 1 Test Material	260,00
				B	55g x 1 Test Material	190,00
Only for the analysis of T-2 & HT-2:			WH2603/T	A	55g x 1 Test Materia	260,00
				B	55g x 1 Test Material	190,00
Aflatoxins B/G and Ochratoxin A	paprika <sup>s</sup>	incurred	SP2601	A	55g x 1 Test Material	260,00
				B	55g x 1 Test Material	190,00
partial participations in SP2601						
Only for the analysis of aflatoxins B/G:			SP2601/Y	A	55g x 1 Test Material	200,00
				B	55g x 1 Test Material	150,00
Only for the analysis of Ochratoxin A:			SP2601/O	A	55g x 1 Test Materia	200,00
				B	55g x 1 Test Material	150,00

Analysis of aflatoxins B/G, T-2 & HT-2 intended to the homogeneity study have been subcontracted.

<sup>s</sup>Material has been irradiated. The irradiation process has been subcontracted.

Test Veritas is responsible of subcontracted activities.

<sup>L10</sup>Lyophilized material. Quantity regards the final quantity after reconstitution. Instructions for reconstitution will be delivered with the test material.

## TECHNICAL ASPECTS

Each test material may contain one or more substances from the table below. It is not requested to research all the molecules of each group.

The proposed concentrations are indicative, specially for incurred matrix (naturally contaminated) with multiple contamination.

Milk test materials would contain preservative solutions.

Category	List of molecules	Indicative concentrations
Aflatoxin M <sub>1</sub>	aflatoxin M <sub>1</sub>	milk: < 100 ppt or blank
DON	deoxynivalenol	wheat: < 6000 ppb
T-2 & HT-2	T-2 & HT-2 toxins & as a sum	wheat: < 600 ppb
Ochratoxin A	ochratoxin A	paprika, feed: < 30 ppb
Aflatoxins B/G	aflatoxins B <sub>1</sub> , B <sub>2</sub> , G <sub>1</sub> , G <sub>2</sub> and/or total	feed: < 80 ppb; paprika: < 40 ppb

## PROFICIENCY TESTING SCHEMES

Proficiency Testing Schemes

### PROFICIENCY TESTING SCHEMES >

[CONTROL MATERIALS >](#)

[VALIDATION SERVICE >](#)



### Progetto Trieste - Proficiency Testing Schemes for agri-food sector.

For External Quality Control, Test Veritas offers to its customers the interlaboratory proficiency scheme Progetto Trieste.

The main features of Progetto Trieste are:

At [www.testveritas.com](http://www.testveritas.com) it is available information about how Progetto Trieste works, advantages, FAQ and examples of Final Report to show elaboration data methods.

### WHAT IS

A Proficiency Testing provides the evaluation of participant performance against pre-established criteria by means of interlaboratory comparisons. Test Veritas organizes it through one or more rounds of interlaboratory EN ISO/IEC 17043:2010 accredited trials or through trials that follow this international standard requirements.

The accreditation certifies that Progetto Trieste meets the requirements of the standard EN ISO/IEC 17043:2010 "Conformity assessment- General requirements for proficiency testing". You could download the certificate in this page under the section **ACCREDITATION**.

### HOW IT WORKS

### WHY TO PARTICIPATE

### ADVANTAGES

### FAQ

### PROGRAMME

### EVALUATION CRITERIA

### ACCREDITATION

### FINAL REPORT

### VIDEO

### LOGIN

Access to all our services by entering your username and password.

You will be able to:

- Place an order
- Fill out the answer forms.
- View your archive of orders and answers

If you are not subscribed, **subscribe now!** The order will be easier and faster.

USERNAME

PASSWORD

LOGIN

After login in the Restricted Web Area it is possible to fill in the on-line order form. On-line order is necessary for the management of the participation.

### ORDER FORM

OTHER CHEMICAL CONTAMINANTS ROUND 2014						
ANALYTES	MATRIX	CODE	Q.TY	PRICE (€)	a) CONTACT NAME b) EMAIL	DATA
pesticides	tomato	VP1480	<input type="text"/>	220.00 €	a)contact name b)email	Initial Date: 13/10/2014 Delivered final report: December 2014
		VP1480blank	<input type="text"/>	50.00 €	a)contact name b)email	Initial Date: 13/10/2014 Delivered final report: December 2014
nitrate and nitrite	swine meat	M1481	<input type="text"/>	220.00 €	a)contact name b)email	Initial Date: 13/10/2014 Delivered final report: December 2014
<input type="checkbox"/> Hardcopy Final Report (€5.00 €)						

1st ROUND-VETERINARY DRUG RESIDUES 2014						
ANALYTES	MATRIX	CODE	Q.TY	PRICE (€)	a) CONTACT NAME b) EMAIL	DATA
tetracyclines and quinolones	eggs	E1410 (A)	<input type="text"/>	360.00 €	a)contact name b)email	Initial Date: 17/03/2014 Delivered final report: June 2014
		E1410 (B)	<input type="text"/>	275.00 €	a)contact name b)email	Initial Date: 17/03/2014 Delivered final report: June 2014
		E1410 (A+B)	<input type="text"/>	600.00 €	a)contact name b)email	Initial Date: 17/03/2014 Delivered final report: June 2014
E1410 partial participation: only tetracyclines	eggs	E1410/T (A)	<input type="text"/>	330.00 €	a)contact name b)email	Initial Date: 17/03/2014 Delivered final report: June 2014
		E1410/T (B)	<input type="text"/>	260.00 €	a)contact name b)email	Initial Date: 17/03/2014 Delivered final report: June 2014
		E1410/T (A+B)	<input type="text"/>	560.00 €	a)contact name b)email	Initial Date: 17/03/2014 Delivered final report: June 2014



# General conditions

## TAX

All prices are excluding VAT, where applicable, and shipment costs.

## PRICE FOR ADDITIONAL MATERIAL :

In case the provided volume is not enough, it is possible to order additional material.

120,00 Euro for codes containing 2 test materials

90,00 Euro for codes containing 1 test material

Laboratories that order additional material will receive double quantity of material.

Additional materials will be sold only in combination with Test Materials. They do not allow to take part into the PT.

## PRICE REDUCTIONS (applicable only to orders placed on-line):

- 5% price reduction for ordering 6 or more Test Materials "A" o "B"

## SHIPPING COST (Euro):

	EU	Europe non-EU	
• <b>for mycotoxin and acrylamide rounds</b>			
bread, chips, cocoa, paprika, cereals, nuts, feed, coffee, milk:	60,00	130,00	Shipping cost for other destinations will be quote on request.
apple juice, cheese:	90,00	130,00	
• <b>for veterinary drug residues rounds</b>			
urine, milk, honey, eggs, tissues:	60,00	130,00	Shipping cost for other destinations will be quote on request.
water, serum :	90,00	130,00	
• <b>for pesticides, metals, additives, histamine and other compounds rounds</b>			
	60,00	130,00	Shipping cost for other destinations will be quote on request.

## INVOICING, PAYMENT CONDITIONS

The performance assessment service will start from the on-line registration to the proficiency program. For this reason the invoice will be issued upon the receipt of your order and has to be paid before the test materials will be shipped.

**Note: in case your invoice is not paid before the test materials are send, your laboratory would be cancelled from the participant's list.**

A fixed bank charge of 20,00 euro will be applied for the orders from all non-EU countries. The orders from non-EU countries would be paid against proforma-invoice; 35,00 euro for the certificate of origin can be charged.

Payment can be made by bank credit transfer. Our bank details will be indicated in the order confirmation and in the invoice.

## JURISDICTION

Any dispute arising from this contract is exclusively competent the Court of Trieste, excluding any competing court. Every business relationship will be settled in Italian language. If there were written communications in English, the only language accepted to the Italian alternative, the interpretation of which was contrary to written communication in Italian always prevail the sense of the latter.

## QUALITY SYSTEM

Proficiency Testing Scheme for mycotoxins and veterinary drug residues, histamine, metals and pesticide residues are UNI CEI EN ISO/IEC 17043:2010 accredited by ACCREDIA (Cert. PTP N. 0008 P) .

Scopes of accreditation are available at [www.accredia.it](http://www.accredia.it).

The meaning of the accreditation and the and the details of accredited schemes at [www.testveritas.com](http://www.testveritas.com).

Accreditation excludes, in any case, ACCREDIA from any responsibility regarding the offered service.

Progetto Trieste provider, Test Veritas Srl, operates in conformance with UNI EN ISO 9001:2015 (Cert. N. IT12/0502).



PTP N° 0008 P

## RESULTS AND REPORT

Results are returned through Progetto Trieste Restricted Web Area.

**Progetto Trieste** +

E1323B-2	RESPONSE	CONCENTRATION CORRECTED FOR RECOVERY* (ug/kg)	DECISION LIMIT CCg (ug/kg)	DETECTION CAPABILITY CCg (ug/kg)	ISO 17025**
SULFAMETHAZINE	NS	NS	NS	NS	-
SULFADIMETOXINE	NS	NS			
SULFAQUINOXALINE	NS	NS			
SULFAMERAZINE	NS	NS			
SULFADIAZINE	NS	NS			
SULFAMETHOXYPIRIDAZINE	NS	NS			
SULFAMONOMETHOXINE	NS	NS			
SULFATHIAZOL	NS	NS			
SULPHONAMIDES GROUP (Choose „GROUP“ if your method does not distinguish the molecules. If possible, indicate in the comments which molecules are included)	NS	NS			

**ANSWER FORM**

Analytical methods used by participants

Methods:  If other, specify:

Is the analytical method a routine one?

Action level  (ug/kg)

Action level (ug/kg)

Specify the concentration above which the material is considered not-compliant

Number of replicates (1 replicate = 1 extraction)

Number of extraction:  If other, specify:  (integer value e.g.: 4)

Recovery

Recovery calculated by:  If other, specify:

Quality

Quality control implemented:  If other, specify:

Reference

Reference:  If other, specify:

Source of standards for chromatographic analysis

Amount of test for the extraction

Sample volume:  (number with one decimal e.g.: 1.1)

Units:

Sample treatment

Extraction (SPE or other)

SPE extraction for liquid samples:  If other, specify:

Other extraction:  If other, specify:

Digestion:  If other, specify:

Clean up (SPE or other)

SPE Clean up:  If other, specify:

Other Clean up:  If other, specify:

HPLC methodology and conditions

HPLC:

Column phase:  If other, specify:

Column length (cm):  (number with one decimal e.g.: 1.1)

Column diameter (mm):  (number with one decimal e.g.: 1.1)

Particle size (µm):  (number with one decimal e.g.: 1.1)

Chromatographic column (type):  If other, specify:

Mobil phase:  If other, specify:

pH of mobile phase:  (number with one decimal e.g.: 1.1)

Flow rate (ml/min):  (number with one decimal e.g.: 1.1)

Post column reagent:  If other, specify:

Injection volume (µl):  (number with one decimal e.g.: 1.1)

UV λ (nm)

exc:  (number with one decimal e.g.: 1.1)

em:  (number with one decimal e.g.: 1.1)

GC methodology and conditions

Capillary column length (m):  (number with one decimal e.g.: 1.1)

Film thickness (µm):  (number with one decimal e.g.: 1.1)

Chromatographic column:  If other, specify:

Injection volume (µl):  (number with one decimal e.g.: 1.1)

Injection temperature (°C):  (number with one decimal e.g.: 1.1)

Injection procedure:  If other, specify:

Oven temperature (°C):  (interval of 2 numbers with no decimal. (es. 50-150))

Please indicate the concentration in relation to reconstitute

RESPONSE: "POS" = ANALYTE DETECTED - "NEG" = ANALYTE NOT DETECTED

\* Please indicate:

- estimated concentration correct with recovery if the compound is not detected;
- "< ..." if the compound is not detected;
- "> ..." if the compound is detected but not quantified;
- "NS" if the compound is not searched.

\*\*Please indicate whether the method used is in the scope of accreditation

Link for consulting performance evaluation criteria. (modified in August 2012)

We cannot be held responsible for errors arising from incorrect data entry

Reports will be available on the website inside the Restricted Web Area archive.  
Participants will be informed by email about the availability of the Final Report.

### ANSWERS ARCHIVE

#### MY ANSWERS

Number of Modules: 60

COMPLETION DATE	IDE. CODE	ANALYSIS DATE	CODE	LABORATORY	ANALYST	LABORATORY CODE	FINAL REPORT
14/03/2014 12:27:49	T6LADD	13/03/2014	M1416(B)	TV - controllo I°r FV	Elena	999	<a href="#">Download Final Report</a>
14/03/2014 12:16:43	ZDYQ88	13/03/2014	M1416(A)	TV - controllo I°r FV	Elena	999	<a href="#">Download Final Report</a>
14/03/2014 12:13:37	G8KFK9	13/03/2014	M1416(B)	TV - controllo I°r FV	Elena	999	<a href="#">Download Final Report</a>
14/03/2014 12:09:48	WHRWKT	13/03/2014	M1416(A)	TV - controllo I°r FV	Elena	999	<a href="#">Download Final Report</a>

### CONFIDENTIALITY OF RESULTS

The identity of participants is confidential: every participating laboratory receives a code.

Only with specific authorization from the participant, the Progetto Trieste Secretariat will disclose all or part of the results/evaluation to third parties. In exceptional circumstances, when a regulatory authority requires proficiency testing results to be directly provided to the authority by the proficiency testing provider, the affected participants shall be notified of this action in writing. The participants' list will be published in the Final Report.

The laboratory that participates to Progetto Trieste PTs undertakes to keep its result secret and to do not share it with other laboratories before the Final Report is issued.

### CONTROL MATERIALS (AFTER PROFICIENCY TEST CONCLUSION)

At the end of the rounds, Test Materials are made available to the participants (until stock lasts) to carry out further investigations or to use them in the control charts of the analytical method. The test materials will be kept for 2 months.

Exceeded this time, where possible they will be accompanied by a datasheet which will establish the deadline.

The recordings of the tests carried out relating to the test materials will be available for 5 years.

Hard-copy reports are available for an additional charge.  
These are sent to participants by post.