



Fluid Overload	<1% Fluid Overload	≥1%–20% Fluid Overload	≥20% Fluid Overload	Total Cohort	P
150	51	63	297		<0.001
15.7 ± 17.1	24.8 ± 20.0	25.5 ± 26.9	21.5 ± 27.5		<0.001
29.4	43.1	65.6	43.1		<0.001
13.4 ± 7.0	7.5 ± 9.6	6.1 ± 6.2	8.5 ± 7.0		<0.001
43.4 ± 32.1	28.1 ± 23.2	22.1 ± 23.1	34.3 ± 29.7		<0.001
82.1	54.9	54.8	58.6	0.5	
37.9	45.1	45.2	41.4		<0.001
64.7	66.3	66.9	79.5		<0.001
69.5	68.2	61.4	74.4		<0.001
7	76.5	80.7	64.0		<0.001
2.8	43.1	60.3	61.1	0.05	
78.4	74.5	66.3	61.1	0.3	
48.0	47.1	58.1	51.1	0.02	
24.8	37.3	40.9	32.0	0.02	
30.1	21.6	15.1	23.9	0.03	
10.5	2.0	1.1	5.1	0.005	
13.1 ± 8.5	15.1 ± 7.9	15.9 ± 10.1	14.3 ± 9.0	0.04	15.1 ± 8.5
0.9 ± 1.1	1.4 ± 1.0	1.7 ± 1.2	1.2 ± 1.2	<0.001	0.9 ± 1.1
47.5 ± 31.0	44.4 ± 33.0	33.9 ± 23.9	42.8 ± 41.6	0.05	47.5 ± 31.0
68.3	82.4	88.2	77.4	0.002	68.3
80.1	48.0	44.1	53.2		80.1
38.9	51.0	55.9	45.8		38.9
62.1	54.9	54.8	58.6	0.5	62.1
37.9	45.1	45.2	41.4		37.9
64.7	66.3	66.9	79.5	<0.001	64.7
69.5	68.2	61.4	74.4	<0.001	69.5
48.7	76.5	80.7	64.0	<0.001	48.7
26.8	43.1	58.1	58.4	<0.001	26.8
78.4	74.5	66.3	61.1	0.05	78.4
48.0	47.1	58.1	51.1	0.3	48.0
24.8	37.3	40.9	32.0	0.02	24.8
30.1	21.6	15.1	23.9	0.03	30.1
10.5	2.0	1.1	5.1	0.005	10.5
13.1 ± 8.5	15.1 ± 7.9	15.9 ± 10.1	14.3 ± 9.0	0.04	13.1 ± 8.5
0.9 ± 1.1	1.4 ± 1.0	1.7 ± 1.2	1.2 ± 1.2	<0.001	0.9 ± 1.1
47.5 ± 31.0	44.4 ± 33.0	33.9 ± 23.9	42.8 ± 41.6	0.05	47.5 ± 31.0
					44.4 ± 33.0



# Proficiency Testing

Quality You Can Trust



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For the accreditation status of Fapas® proficiency testing programmes, please see our schedule of accreditation at [www.fapas.com](http://www.fapas.com)

## WHO WE ARE

Established in 1990, Fapas® is a leading accredited provider of proficiency testing schemes, quality control samples, and reference materials in the food and water, environmental chemistry, microbiology and cosmetics sectors.

Fapas® proficiency testing schemes cover food and beverage chemistry, food and beverage microbiology, GM Foods, water and environmental chemistry, water and environmental microbiology and cosmetics chemistry and microbiology. Our quality control samples and reference materials can be purchased easily through our website throughout the year.

Proficiency testing is an independent check of your laboratory procedures that provides you with a completely confidential assessment of your capability. Participation in proficiency testing schemes not only allows you to demonstrate the validity of your systems and the technical ability of your staff, it also helps you gain and maintain ISO/IEC 17025 accreditation. Confidence in your laboratory equipment, methods, and staff provides your customers with the assurance that you are delivering the quality results they require.

We provide a confidential, flexible service allowing participation at a level that suits you; there is no minimum number of proficiency tests that you must take part in each year. We provide you with comprehensive reports of your data, which receive rigorous statistical analysis and contain method comparisons to provide further insight into your performance - all of which are accessible via an interactive reporting facility on our website.

### What makes us different? We only use Real World Samples

In order to obtain life-like results and eliminate as much of the unexpected as possible, we use real matrix samples and a protocol that has been refined over 30 years. We use incurred materials in combination with established fortification techniques, and extensive stability and homogeneity testing to ensure optimum material production.



## WHY CHOOSE FAPAS®?



### High Quality Samples

By using real matrix samples, Fapas® test materials provide a representative challenge that simulates routine laboratory scenarios. Our chemistry reference and quality control materials are stable and fully characterised for long term availability in method validation and verification. We also have a limited range of microbiology quality control materials available.



### Accredited Programmes

Fera Science Ltd. is a UKAS accredited proficiency testing provider (No. 0009), in compliance with ISO/IEC 17043:2023. Fera Science Limited also holds accreditation and certification to other internationally recognised standards including ISO/IEC 17025 and ISO 9001. The Fapas® participant certificates provide evidence you are enrolled in a reputable proficiency testing, or external quality assessment (EQA), scheme.



### Online Data and Reports

The Fapas® online submission and reporting system is simple to use and our reports are comprehensive, but also easy to understand.

There is also the facility to prepare user defined trending charts to compare historical performance over a number of previous tests.

Reports include data on all methods, allowing comparative performance assessment of different laboratory protocols. We can also provide interlaboratory reports for multiple connected laboratories, that provide an overview of global performance.



### Flexible and Cost Effective

Our extensive range of multi-analyte programmes and analyte/matrix combinations allow you to reduce the number of individual programmes required to cover your testing schedule, saving both time and money. You can participate at a level that suits you; there is no minimum number of proficiency tests that you must undertake each year. This provides flexibility and ensures suitability for laboratories of all sizes and budgets.



### Timely and Effective Reporting

Short timescale reporting provides early identification of potential issues and allows implementation of any corrective or preventative actions with minimum disruption to your laboratory. With a turnaround of less than fifteen days for most reports, you can investigate root causes efficiently, and minimise the risk of future issues. Your results receive rigorous statistical analysis by our experts in that time.



### Strength in Numbers

Fapas® testing regimes are used by thousands of participants every year. This high level of participation means peer group numbers are maximised and provides data across a wide range of instruments and methods.

## BENEFITS OF PROFICIENCY TESTING

We understand the challenges you face, which is why we can provide tailored proficiency testing solutions that deliver real value; we can also help with the interpretation of your proficiency test results.



We have been a global leader in proficiency testing for the food and beverage sector for nearly 35 years with thousands of customers in more than 130 countries. As part of Fera Science Ltd. we have access to a wealth of expertise, underpinned by conducting over 1000 proficiency tests every year with high levels of participation. This gives you the confidence in our robust analytical data to allow you to make evidence-based business decisions.

The rapid development of new technologies and methodologies can allow you to work smarter but can also pose a challenge for laboratories to maintain quality standards that can be trusted. Proficiency tests help you to achieve EN ISO/IEC 17025 accreditation, the international standard for analytical laboratories.

Proficiency testing is also a vital tool that can help to mitigate business risks such as product failure and non-compliance. Avoiding these risks can enhance your brand reputation, and help you meet legal requirements. Fapas® deliver a comprehensive yet cost-effective solution to demonstrate the quality of your testing regime. We help you meet your regulatory requirements, work smarter, and increase confidence in the accuracy of your test systems.

With over 1000 matrix and analyte combinations currently available, you can be sure that we have the right test for you. We are constantly adding to our range, informed by customer feedback, market analysis, and changes in regulation. An example of our reaction to changes in industry is the introduction of proficiency tests for novel foods, including insect protein.

Fapas® provides certificates as proof of EQA participation for laboratory accreditation purposes.

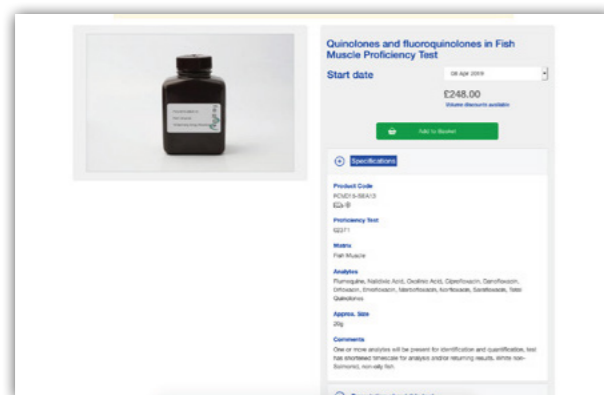
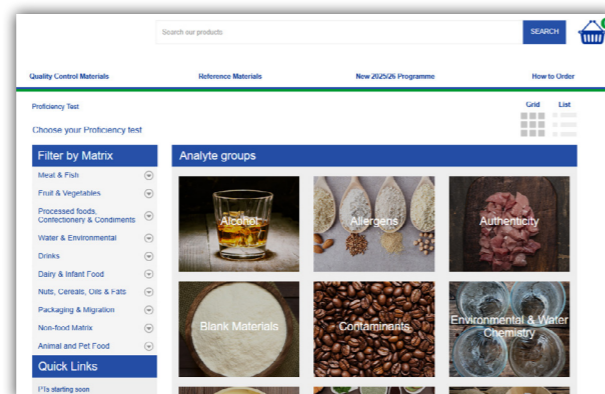
The vast majority of our PTs comply with ISO/IEC 17043:2023; Conformity assessment - General requirements for the competence of proficiency testing providers.

Accreditation to ISO/IEC 17043:2023 establishes the quality and excellence of Fapas®.

## OUR SIMPLE WEB-BASED APPROACH

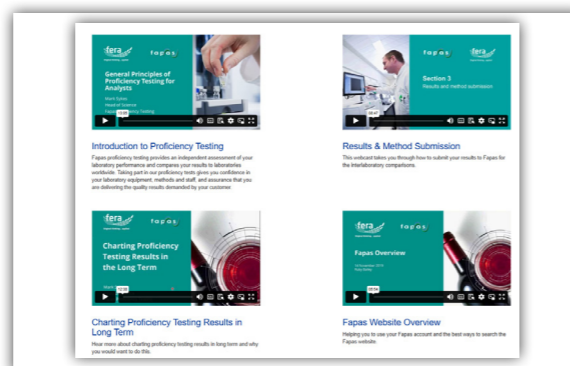
fapas.com brings easy, interactive access to our whole range of Proficiency Testing products, services and technical documentation.

- Use the Search and Filters to quickly find products by Matrix or Analytes.
- Place orders and quotations easily and securely with our Web shop.
- Download our full Programme Price Lists



- Dedicated pages with additional product information.
- Download Data Sheets for Quality Control and Reference Materials.
- Request new PTs with our online forms

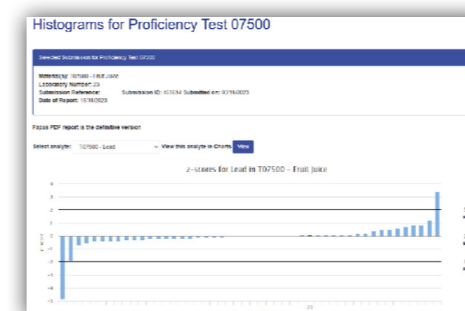
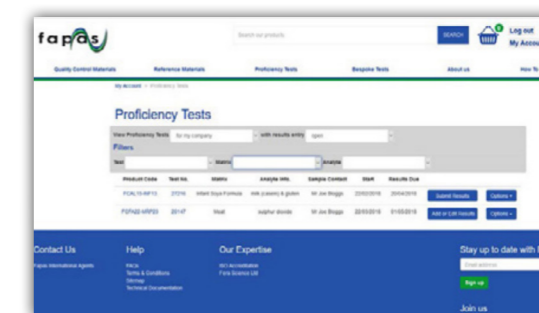
- Access a range of technical support and instructional content.
- Download our protocols and accreditation certificates.
- Contact the Fapas® Customer Service team or your local Fapas® Agent



## ONLINE PERFORMANCE ASSESSMENT

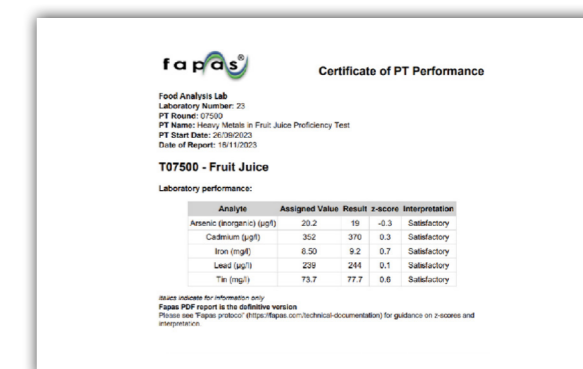
Fapas® SecureWeb provides a portal for easy, direct submission of results, and for the retrieval of reports directly from our secure Fapas® server.

- Confidentiality and security are maintained via password protected access.
- Enter results directly into the Fapas® database. Receipt of results is confirmed by e-mail.
- Additions and changes to assay details can be made quickly and easily online.



- Statistical breakdowns by analyte, with details of methods used.
- Use the histogram to compare your lab instrument group, method group and all methods.
- Identify trends, biases, and precision problems using the visual charts.

- View, print, or store reports as you wish.
- Print your certification of participation.
- All you need is web access, a pdf reader and a validated account to access the system.



### Laboratory Group Reports

This service enables large groups to monitor the performance of all the member laboratories. It is particularly powerful when the laboratories coordinate their participation in specific tests at the same time. Each affiliated laboratory will receive an individual report, and the group supervisor also receives a summary report comparing each laboratory in the network.

For when you need that expert on hand to advise on best-practice industry standards to deliver both quality and process improvement across your laboratory systems.

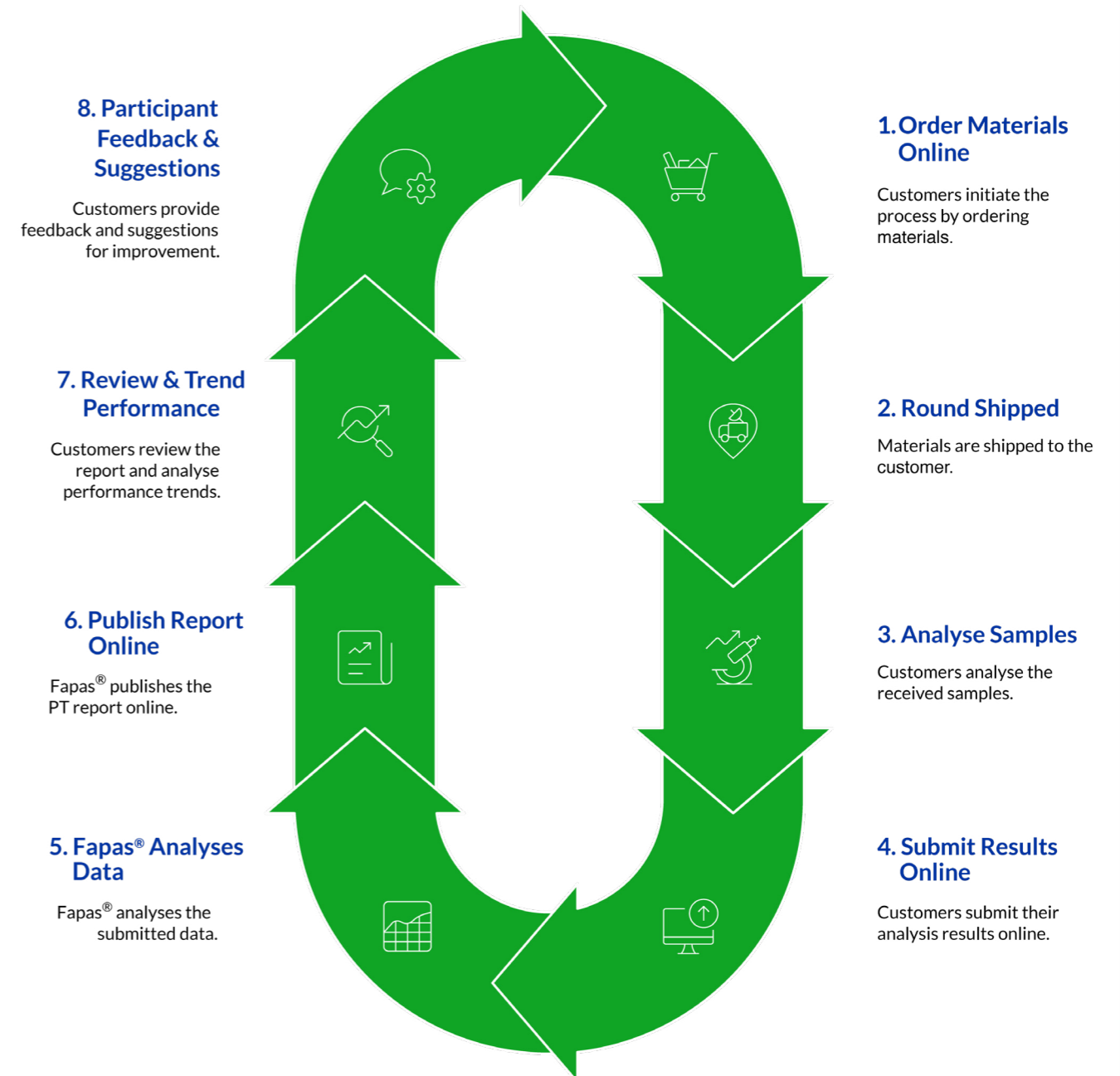
By combining process mapping, functional trending, a variety of analyses, and the use of process metrics and controls, Fapas® can provide a highly effective service for improving quality control processes.

Root cause analysis is crucial to increase the speed of resolving complex quality issues or to eliminate intractable problems once and for all. Our remedial services are practical and effective, and can result in tangible benefits including faster production, higher quality output, increased customer satisfaction, lower cost, and better execution. Training is a cornerstone of our consultancy framework and provides the tools to individuals and teams to help eliminate problems once and for all.



Fapas® has authored many peer-reviewed publications and technical papers in this area; our consultants apply their expertise to develop and enhance quality control systems and processes for your testing laboratory. By implementing integrated, efficient, and flexible quality processes our clients are able to adjust to rapidly changing marketplaces, reduce delays, and enhance their customer satisfaction, encourage collaboration with partners and customers, and optimise utilisation of resources.

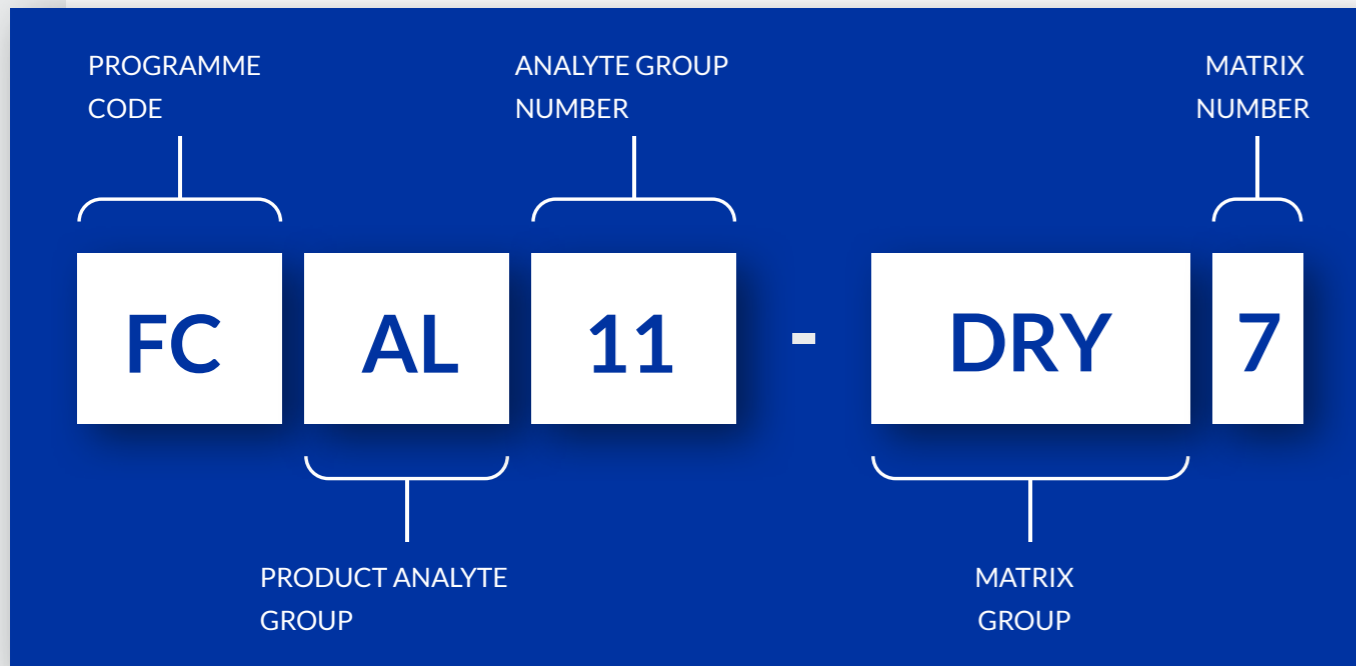
For nearly 35 years, Fapas® consultants have provided their customers with world-class data-driven process improvements to drive high performance.



# FAPAS® PRODUCT CODES EXPLAINED

We've made our product codes even simpler!

We've organised our codes by programme, analyte group and matrix so you can quickly understand your product exactly. As our product offering is so extensive see the list below of all the programme, analyte and matrix groups we offer.



So for **FCAL11-DRY7** this product is within the food chemistry programme, number 11 within the allergens sub group, and number 7 in the dairy matrix group.

## Programme Code

Code	Programme
FC	Food Chemistry
BL	Blank (Food Chemistry)
FG	Fapas GM
FM	Food Microbiology
FW	Fapas Water
FS	Fapas Sequencing
VP	Virtual Proficiency
CP	Cosmetics Proficiency

## Analyte Group

Code	Programme
OH	Alcohol (OH)
AL	Allergens
AA	Authenticity: Adulteration
AC	Authenticity: Contamination
FB	Authenticity: Foreign Body
AS	Authenticity: Speciation
CE	Contaminants: Environmental Contaminants
CO	Contaminants: Overall migration (packaging contaminants)
CP	Contaminants: Processing Contaminants
CS	Contaminants: Specific migration (phthalates, BPA, PAA)
CM	Contaminants: Metals, Trace elements
FO	Fat, Fatty Acids and Oil
FA	Food Additives and Ingredients
OE	Food Microbiology: Organism Enumeration
OD	Food Microbiology: Organism Detection
GM	GM
MA	Mycotoxins: Aflatoxins

## Matrix Group

Code	Programme
DRA	Alcoholic Drinks
AFE	Animal Feed
CCP	Cereals and Cereal Products
CON	Confectionery and Condiments
COS	Cosmetics
DRY	Dairy
DRW	Drinking Water
EGG	Eggs
EWV	Environmental
FAT	Fat
SEA	Fish and Seafood
FRU	Fruit & Fruit Purees
VEG	Herbs, Salad & Vegetables
HON	Honey
INF	Infant Food
MRP	Meat (raw and processed)
UMI	Miscellaneous
UNF	Non-Food Media
SUP	Nutritional Supplements
NUT	Nuts
OIL	Oil (olive and vegetable)
PMM	Packaging materials and migration simulants
PFO	Pet Food
PRO	Processed products and baked goods
DRN	Soft Drinks
SPI	Spices
DRH	Tea, Coffee & Hot Drinks
TOB	Tobacco

## QUALITY CONTROL AND REFERENCE MATERIALS

Key to supporting your monitoring of laboratory results, as required in ISO/IEC 17025, is the use of quality control and reference materials alongside your proficiency testing.

Proficiency testing is the only way of independently validating your laboratory results; but whilst it represents the ultimate test of your laboratory it is generally not practical to use for routine control due to the relative infrequency of available rounds. Between rounds the practical way to monitor laboratory results is by the use of quality control materials (QCs), and for more involved projects such as method validation, reference materials (RMs).

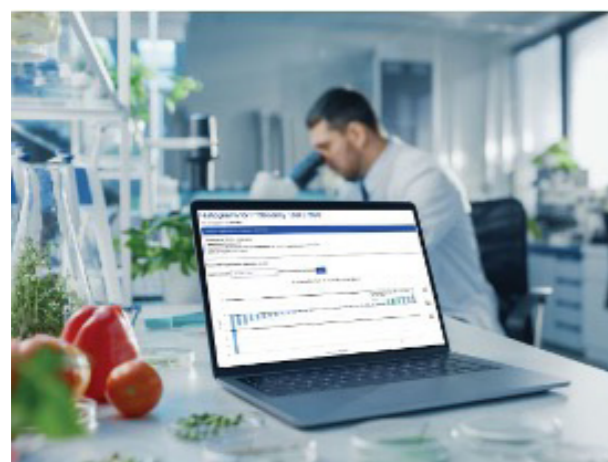
Fapas<sup>®</sup> provides a wide range of quality controls and reference materials from a large selection of food chemistry and GM foods, so we are likely to be able to meet your needs in this area. QC materials have been used in our proficiency testing rounds and analysed by many laboratories and come with a datasheet detailing the analyte values and performance limits for those values.

Our reference materials are provided with defined traceability to established standards and a data sheet stating the reference values and the expanded uncertainty U for those values. Our materials are generated according to the principles of ISO 17034.

Fapas<sup>®</sup> has a wide range of QCs and RMs available to purchase, covering allergens, authenticity, pesticides, vet drugs, GM foods, mycotoxins and many more. We also provide blank materials, which are an essential tool in method validation, especially where matrix-matched standards are required.



# NEW FEATURES

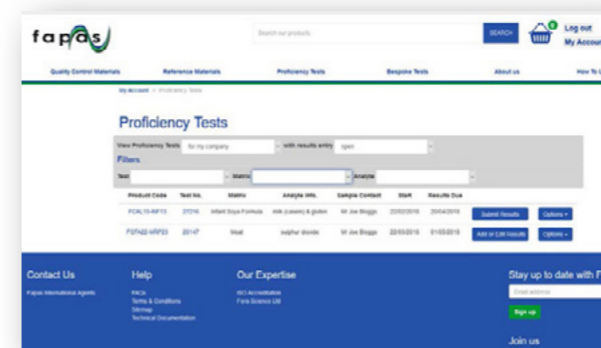


## Enhanced Reporting

Enhanced and portable reporting is the latest service improvement for Fapas® participants that brings additional ways to access your proficiency testing reports, with visual clarity and simplification, helping laboratories to communicate their performance to senior management, customers, auditors, and regulators. Enhanced reporting builds on our existing interactive functions such as charting and easy re-ordering and brings together all your results from a particular round into a group of easy to view and read summary pages that will save you time compared to using the standard PDF report, (which will still be provided as the definitive reporting format). It also provides a printable certificate

## Proficiency Assessment on Demand (PAD)

PAD is an on-demand service which enables you to carry out an independent test of your laboratory for a particular analyte and matrix at a time to suit you and in a shortened timescale compare to a routine proficiency test. PAD can be used when you need to validate (or revalidate) a test and there isn't a scheduled proficiency test to meet your need. We have a large stock of retained PT materials which we can use to assess your laboratory performance outside your normal proficiency testing programme. You may have revised your method, moved to a new method entirely, or need to revalidate an instrument after a repair. PAD takes approximately 3 weeks from start to finish, much quicker than waiting for the next PT to be available.



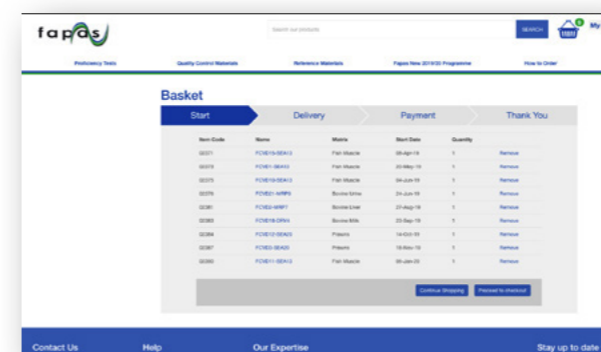
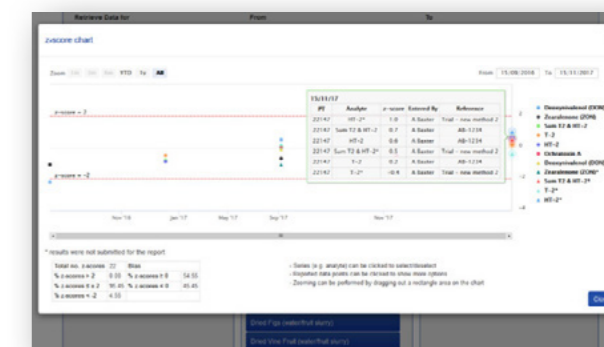
## Multiple Results Submission

You can submit more than one result in each of our PTs allowing you to:

- Compare different methods
- Compare performance of analysts
- Demonstrate analyst competence
- Your nominated result will appear in the report and your additional results in the charting area appear on Fapas® SecureWeb

## Improved Charting

- Online trending is available for all our programmes
- A new range of filters to display the data you need quickly and clearly
- Export data into spreadsheet-compatible format, to produce control charts and feed into your existing quality control procedures



## Easy Re-ordering

You can save time and use our easy re-ordering tool to purchase tests you've ordered in previous years.

- Tests purchased the previous year will automatically be added to your basket
- Shop for additional tests in the Fapas® shop
- View your Proficiency Test orders and quotations

## AGENT INFORMATION

Fapas® has a network of Agents to help you locally. Please contact your nearest office:

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Phone: +54 11 4701 6262  
Email: b.barloqui@r-biopharmlat.com.ar

Australia  
Phone: +61 (0)3 9416 0093  
Email: info@biosys.com.au

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