



RQS

Quality
Meets
Excellence

ISO/IEC 17043
Accredited

Royal for Quality Systems

Proficiency Testing Catalogue



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RQS Profile

RQS is currently the leading Middle East accredited provider of proficiency testing schemes, quality control samples and reference materials for laboratories seeking accreditation to ISO/IEC 17025 or ISO 15189.

Proficiency testing is an independent check of your laboratory procedures providing you with a completely confidential assessment of your capability. Not only does participation in the relevant testing schemes allow you to demonstrate your systems and the technical ability of your staff, it will also help you gain and maintain ISO/IEC 17025 or ISO 15189.

Established in 2014, we are an experienced, accredited provider of proficiency tests for the food, water, environmental chemistry, microbiology, petroleum, detergents, textiles, polymers, construction, Air & gases, pharmaceutical, molecular biology and medical sectors.

Taking part in our proficiency tests provides you with the confidence in your laboratory equipment, methods and staff, and assurance that you are delivering the quality results required by your customers.

We provide you with a confidential service allowing participation at a level that suits you. Our system provides you with comprehensive reports, which receive rigorous statistical analysis.

Our board of experts provides a comprehensive service ensuring a proficiency testing schemes focused on speed, ease and efficiency and which delivers excellent value

Fouad ElTahan

Why choose RQS Proficiency Testing

 **Large Database of Users**

 **Comprehensive Reports**






 **Cost effective**

 **Frequency of schemes**

 **High quality PT samples**

 **Accredited provider**

PT Schemes time table

	Procurement, preparation, dispensing and quality control testing of test materials.	2 – 6 Weeks prior
	Dispatch of test materials and instructions to participants.	Week 1
	Participants analyses test materials and report results as instructed and within the specified deadline	Week 2 — 4
	Results analyzed and the performance of laboratories compared using appropriate techniques, such as Z - scores.	Week 5
	Reports issued and participants notified once reports are available.	Week 5



Food and Feed PT Scheme

Scheme Type	Category	Analyte measured	Frequency	Accreditation
Food and Feed chemistry	Heavy metals	copper, lead, cadmium, Sodium, Iron, Calcium, Arsenic, Mercury	4 times / year	ISO/17043 Accredited
	Wet chemistry	<p>peroxide value, brix, Sucrose, crude fiber , caffeine, potassium iodide, Salt, Fatty acids, sugar, reducing sugar, acid insoluble ash, Acidity, water activity in dried onion, colors, solid content, pH, volatile oil, purity of sodium chloride, TVN.</p> <p>Dietary fiber, Lactose, Nitrogen content, Refractive index, Sodium Nitrate, Specific gravity, Thiobarbituric acid, Total Phosphours, Viscosity, Ethanol content in non-alcoholic beverages</p>	4 times / year	ISO/17043 Accredited
	Residues, additives and preservatives	<p>Pesticide residues (over 200 pesticides), PCBs</p> <p>Aflatoxins (B1-B2-G1-G2-total)</p> <p>Adulteration of Honey, preservatives (Benzoic-sorbic-ascorbic)</p> <p>Ractopamine, Malachite green, Aminoglycosides, Beta-Lactam antibiotic, adulteration of meat authenticity, Vitamin A, Vitamin B, Vitamin C, Vitamin D, Vitamin E, Histamine, nitrite, and nitrate</p> <p>Chloramphenicol, Ciprofloxacin, Ochratoxin A, Oxytetracycline, Tetracycline, Zearalenone.</p>	4 times / year	ISO/17043 Accredited



Food and Feed PT Scheme

Scheme Type	Category	Analyte measured	Frequency	Accreditation
Food and Feed chemistry	Miscellaneous	Protein, urea, Fat, adulteration of Milk, Aflatoxin M1, (Bisphenol A), Polycyclic hydrocarbons (Benzo A pyrene). Artificial Sweeteners	4 times / year	Under process of accreditation
Food and Feed microbiology	Qualitative/ Quantitative	<i>Salmonella species, Listeria species, Vibrio spp, Coagulase positive Staphylococcus aureus, Coliform, E. coli, Coliform, Yeast, Mold, Aerobic Plate Count, Bacillus cereus, Campylobacter spp, Clostridium perfringens, Enterobacteriaceae, Shigella spp. Hepatitis A, Neurovirs 1&2, aerobic & anaerobic spore forming bacteria</i> <i>Enterococcus faecalis, Sulfite reducing bacteria, Thermophilic bacteria</i>	4 times / year	ISO/17043 Accredited
Materials in contact with food	Packing material chemistry	Migration of Cd, Migration of Cr, Migration of Hg, Migration of Pb, Determination of overall migration from packing material in contact with food	4 times / year	ISO/17043 Accredited



Water & Environment PT Scheme

Scheme Type	Category	Analyte measured	Frequency	Accreditation
Water & Environment	Drinking, Non-potable water, and wastewater Chemistry	Pb, Cd, Cr, Zn, Al, Ba, Cu, Zn, Fe, Mn, Na, K, Chloride, total hardness, Ca, Mg, hardness, alkalinity, phosphate, phosphorus, Viscosity, TOC, Ammonia. Determination of free chlorine, TDS, Nitrate, Nitrite, sulfate, PAH, THM, total THM, phenol Mg ⁺⁺ , pH, Conductivity, turbidity As, Si, Ni, Mo, Li, F, Co, Be, B, As Aldrin, Dieldrin, Chlorinated pesticides BOD, COD, TSS Pesticide residues (over 200 pesticides)	4 times / year	ISO/17043 Accredited
		Haloacetic acids (HAAs), Silica (SiO ₂), determination of color, Disinfectants by product, chlorine		Under process of accreditation
	Drinking, Non-potable water, and wastewater Microbiology	Enumeration of Total Algae, Blue Algae, Green Algae and Diatoms, <i>E. coli</i> , <i>Faecal Coliforms</i> , <i>Total Coliforms</i> , <i>Faecal Streptococci</i> , plate count at 35°C and 22°C, <i>Pseudomonas</i> , Sulphite reducing Anaerobes, detection of <i>Legionella</i> , <i>Salmonella spp.</i> Parasites (Protozoa), <i>Shigella spp.</i> , Coliphage bacteria	4 times / year	ISO/17043 Accredited



Water & Environment PT Scheme

Scheme Type	Category	Analyte measured	Frequency	Accreditation
Water & Environment chemistry	Environmental Swabs	<i>Coliform</i> , Total bacterial counts at 35°C and 22°C, <i>Enterobacteriaceae</i> , <i>Salmonella spp.</i> , <i>Listeria spp.</i> , Coagulase positive <i>Staphylococcus</i> , <i>E. coli</i> , Mold, <i>Shigella spp</i> , Yeast	4 times / year	ISO/17043 Accredited
	Soil	Ca, Cu, Fe, K, Mg, Mn, N, Na, P, Zn		ISO/17043 Accredited



GMO & Plant diseases PT Scheme

Scheme Type	Category	Analyte measured	Frequency	Accreditation
Plant diseases	DNA Extract	Detection of <i>F. oxysporum</i> <i>F. spalbedins</i> , Detection of <i>Monilinia Fructicola</i> , Detection of <i>Phytophthora fragariae</i> , Detection of <i>Phytoplasma</i> , Detection of Tomato yellow leaf curl virus	4 times / year	ISO/17043 Accredited
	Seed	Detection of <i>Pyricularia oryza</i> In <i>oryza Sativa</i> (RICE)		ISO/17043 Accredited
GMO	Food & Feed	Detection of the presence of [35s promoter and Nos terminator] as GMO materials in Food & feed	4 times / year	Under process of accreditation



Industrial PT Scheme

Scheme Type	Category	Analyte measured	Frequency	Accreditation
Soap and Detergent	Chemistry	pH, Total Fatty matter, Moisture, Volatile matter, Insoluble matter, Insoluble matter In Alcohol, Free Alkali Active Ingredient As Soluble Matter	4 times / year	ISO/17043 Accredited
		Determination of free Acidity in Disinfection Liquid Detergent		
Fabrics and textiles	Chemistry	Determination of Cd, Pb Determination of Formaldehyde Determination of Azodyes Determination of Phthalate plasticizers	4 times / year	ISO/17043 Accredited
	Mechanical	Determination of Color Fastness to rubbing Determination of Thickness of Textile Materials Determination of Mass Per Unit Area (Weight) Determination of Breaking Force and Elongation of Textile Fabrics (Strip Method)		Under process of accreditation
Fuel and Coal	Petroleum products	Determination of Viscosity	4 times / year	ISO/17043 Accredited
		Determination of density in Fuel Oil Determination of Kinematic Viscosity Determination of Flash point		Under process of accreditation



Industrial PT Scheme

Scheme Type	Category	Analyte measured	Frequency	Accreditation
Industrial chemical substrates	Solid-Alloys	Determination of Elemental composition of Solid-Alloys	4 times / year	ISO/17043 Accredited
	Powder matter	Determination of Elemental composition of powder matter		
	Liquid matter	Determination of Elemental composition of liquid matter		
Polymers	Chemistry	Determination of finger print for Polymers (FTIR) Determination of Status of the Polymers recycle or not recycle Investigate the Status of Polymer by Thermal technique (DSC) Polymer melting point Polymer transission temp	4 times / year	ISO/17043 Accredited
Construction materials	Material Properties	Determination of Compressive strength in cubic preparation Evaluating Corrosion Test Specimens (iron bar) Determination of density / Sand cone method Determination of Sieve analysis /particle size Determination of pH	4 times / year	ISO/17043 Accredited
		Determination of residue insoluble in hydrochloric acid and sodium carbonate in Cement Determination of chloride Ion in Cement Determination of Absorption by using FTIR range from 400 - 4000 cm ⁻¹		Under process of accreditation



Industrial PT Scheme

Scheme Type	Category	Analyte measured	Frequency	Accreditation
Construction materials	Painting materials and varnishes	Determination of Viscosity Determination of pH Determination of non-Volatile matter Determination of Acid Value Determination of Density Determination of Color measurement	4 times / year	ISO/17043 Accredited
		Determination of resistance to hot petroleum Determination of resistance to hot mineral oil Determination of scratch resistance		Under process of accreditation



Air and Gases

PT Scheme

Scheme Type	Category	Analyte measured	Frequency	Accreditation
Air and gases	Pollutant gases	Determination of simultaneous and continuous measures pollutants of NO _x gases Determination of simultaneous and continuous measures pollutants of SO ₂ gases	4 times / year	ISO/17043 Accredited



Pharmaceuticals PT Scheme


Scheme Type	Category	Analyte measured	Frequency	Accreditation
Pharmaceuticals	Serum and Vaccines	Detection of MG,MS, MM. Detection of antibodies Detection of TB using PCR Titer content of Virus sheep and goat pox vaccine. - Assay for Titer content of Virus by using tissue culture - Assay for Titer content of Virus by using egg inoculation - Assay for Titer content of Virus by using egg inoculation Assay for Titer content of Virus by using egg inoculation - Assay for ND virus, FMD antibody, Detection of Brucella, Detection of hemagglutinating agent in attenuated poultry viral vaccines, Rift valley fever, Equine Influenza, west vile fever, vesicular stomatitis, BVD, AI, EDS, IB, IBD, Avian Leucosis, REV, Chicken infectious anemia, mycobacterium para tuberculosis	4 times / year	ISO/17043 Accredited
	Microbiology	Sterility Test, Enumeration of Aerobic Bacterial plate count, Bacterial Endotoxin, Potency of Gentamycin sulfate By using Biological Assay, Detection of Mycoplasma para-tuberculosis, Detection of Phomatracheiphila, salmonella serotyping, Detection of E Coli, Detection of salmonella spp	4 times / year	ISO/17043 Accredited
	Chemistry	Water content by Karl Fischer, Moisture content, pH, Viscosity, Conductivity, Conc of HCL, specific gravity, Refractive index, GC-FID assay, HPLC assay, UV Assay	4 times / year	ISO/17043 Accredited




Demonstrate competency to customers and regulatory bodies.



Fulfill accreditation requirements.



Manage risk through early warning of potential problems.



Compare results with laboratories around the world.



Verify methods and instrumentation.



Educate and train staff.

If you are a laboratory seeking accreditation to ISO/IEC 17025 or ISO 15189, or an organization looking for consistency in delivering a quality product, then RQS will have a proficiency testing scheme designed for you.

Using an accredited PT provider provides you with the assurance of the quality and reliability of the service. RQS is accredited to ISO/IEC 17043 by the Egyptian Accreditation Service (EGAC).

Great results are born out of confidence and by working with RQS Proficiency Testing you can have the assurance that your decision making is informed, reliable and effective.

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