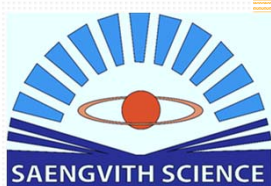


# Saengvith **Science** Co., Ltd.



## Company Introduction

Company established in 2002

Summary of Business: Trading Company, import scientific equipment from Asia, Australia, Europe and America for resale to Thai Government and Private Manufacturer

### Scientific Equipment for:

- Food safety diagnostic
- Chemical Reference Standard / Material & Proficiency Testing Scheme
- Sample Preparation
- Environmental Monitoring
- Petrochemicals – fuels , Lubricating oils , Plastics and polymers
- Forensics., etc



**APFAN PT-2 Workshop**  
Food Analysis Workshop: Proficiency Testing and Reference Materials Development

# Product Overview

## Certified Reference Material

- **Environmental Matrix Reference Materials**

: for analysis **organic, inorganic, major ions, nutrients, trace elements & minerals** in water, soils, sediments, sludges, plants and water calibration solutions



- **Food Matrix Reference for Food Industry and Occupational Hygiene**

: for analysis **organic contaminants, inorganic, trace elements, major nutrients and pesticides** in milk products, meat, fish, vegetable matter, food & drinks, soils, for inorganic analysis and genetically modified crops



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*Certified Reference Material*

▪ **Industrial Matrix Reference Materials**

: for analysis trace elements, nutrients in Rocks, ceramic materials & minerals, fertilizer

▪ **Sport drugs, clinical analysis and Forensic Toxicology**

: Blood, serum, urine with certified values of trace elements, proteins and vitamins



▪ **Pharmaceutical reference substances and impurities**

: **Reference substances from the worlds Pharmacopoeia:** United States Pharmacopoeia, European Pharmacopoeia, British Pharmacopoeia, International Pharmacopoeia, Pharmacopoeia Helvetica.



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Proficiency Testing Scheme

*Environmental Schemes*

- ✓ **QWAS** : Microbiological assessment of waters , effluents & sludges
- ✓ **AQUACHECK** : Chemical analysis of clean water , waste waters , sludges , sediments & soils
- ✓ **CONTEST** : Analysis of contaminated soils for a wide range of contaminants
- ✓ **STACKS** : Analysis of pollutants in stack solutions; Mercury, Metals, Sulfur Dioxide, Hydrogen Fluoride & HCl



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**Proficiency Testing Scheme**

**Food Schemes**

- ✓QMS : Microbiological examination of food matrix (oatmeal) & Dairy matrix (skimmed milk powder)
- ✓AFPS : Chemical (proximates, elements) and microbiological analysis of animal feed products
- ✓QDCS : Composition and safety testing in the dairy sector
- ✓QMAS : Chemical and microbiological test of meat, fish & shellfish
- ✓QFCS : Chemical testing of food products
- ✓QGS : Analysis of gelatine samples
- ✓QCS : Microbiological testing of chocolate



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**Proficiency Testing Scheme**

**Beverage Schemes**

- ✓QBS : Chemical and microbiological testing of soft drinks
- ✓BAPS : Chemical microbiological and sensory analysis of a range of beers
- ✓DAPS : Analysis of a wide range of alcoholic beverages ( except beer )
- ✓MAPS : Analysis of malt and barley used by the malting , brewing and distilling industries
- ✓SUPS (Sugar) : Chemical (including metal and sediment) and microbiological analysis of raw sugar used in soft drink production



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**Proficiency Testing Scheme**

**Other Scheme**

- ✓ **QMIS** : Identification of microorganisms
- ✓ **PHARMASSURE**: Measurement of a range of analytes in pharmaceutical products used in hospitals
- ✓ **QUARTZ** : Toxicological analysis of drugs in post-mortem blood
- ✓ **TOYTEST** : Toy safety testing to The European Standard EN71 and ASTM F963
- ✓ **OIL** : Enables the robust testing of physical and chemical parameters in a range of fuels and other oils according to ASTM, IP and ISO protocols



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**Chemical Reference Standard**



**Organic Standards & Select Mixtures**

- **Pesticides & Herbicides**
- **Persistent Organic Pollutants (POP)** : Polychlorinated biphenyls (PCBS) & metabolites, Halogenated aromatics, Dibenzo-p-dioxins, Dibenzofurans, Polybrominated Diphenyl Ether (PBDE) congeners, Polybrominated Biphenyl (PBBs) Metabolites & BFRs, PAHs & Derivatives, Nitrogen containing compounds
- **Volatile Organic Compounds (VOCs)**
- **Individuals by functional group** : Alcohols, Aldehydes & Derivatives, Ketones, Phenols, Amines, Anilines, Amino compounds, Ethers, Halo ethers, Haloacetic acids, Fatty acid ethyl ethers & Phthalates
- **Individuals by application** : Explosives, Fuels & hydrocarbons, Plastic additives, Food analytes (Methyl esters, glycerides, AOCS Methods, FAMES, Melamine Kit, Vitamins & preservatives), Allergens, Dyes Expanded, Perfluorinated acids & salts (PFOA, PFOS), Odor, Refrigerants and Qualitative Kits



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**Chemical Reference Standard**



**Inorganic Standards & Quality Control Standards**

- ➔ **Single Element** : ICP, ICP/MS & AA
- ➔ **Ion Chromatography Standards**
- ➔ **Wet chemical** : Turbidity, Alkalinity, Hardness, Conductivity, Oil & Grease, Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) & Solids
- ➔ **ICP & ICP / MS Multi – element Standards**
- ➔ **OrganoMetallics (Wear metals)** : AA, ICP, DCP & XRF Analysis
- ➔ **Lubricating Oil Standards**      ➔ **Inorganic ASTM Methods**      ➔ **Solid Waste Analysis** : Solid Matrix Standard



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**Chemical Reference Standard**



**Reference Standards for Petrochemical**

- ➔ **Over 100 ASTM Methods D-56 to D-7065** ( Cross Ref. IP, ISO, DIN, JIS, AFNOR Methods )
- ➔ **Physical properties** : Flash point, Distillation, Viscosity, Aniline point, Freezing point & Cloud point
- ➔ **Sulfur standard** : Diesel Fuel, Residual Oil, Mineral Oil, Kerosene, Gasoline & Crude Oil
- ➔ **PIANO, PONA, PNA Analysis** : n-Paraffins, Isoparaffins, Aromatics, Naphthenes & Olefins
- ➔ **BioFuels** : ASTM D6584 / EN14105 Free & Total Glycerin, EN14103 Fatty Acids Methyl Esters (FAMES), Fatty Acid Ethyl Esters (FAEES), EN14214 Wear metals
- ➔ **Universal Oil Products (UOP)**      ➔ **Total Petroleum Hydrocarbon (TPH) & Fuel & Hydrocarbon**
- ➔ **Skinner List for Refinery Waste**      ➔ **LUFT/LUST (UST) Methods – State specific, GRH, DRH – TRH**
- ➔ **Wear Metals** : Organometallic ICP/XRF, Matrix Oil & Stabilizer, Metals additives and Lubricating Oil



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**THANK  
YOU  
FOR  
YOUR  
ATTENTION**



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