

QUALITY CONTROL SERVICES 1/3

Standard Analytical Techniques

Our partner laboratories offer a wide range of services for characterization and control of raw materials, APIs and any type of matrix

- Basic Phys/Chem parameters (pH, viscosity, conductivity...)
- Water content, nitrogen content...
- Index determination (acid, base, saponification, iodine...)
- Refractive index
- Sulfuric ashes and total ashes, dry content
- Melting point, dropping point, solidification point
- Titrimetric methods (with indicator, complexometry, potentiometry, amperometry)
- Particle size analyses via Laser granulometry and sieve
- Inorganic compound analyses: nitrate, nitrite, phosphate...
- Metal analyses: total metals, heavy metals...
- Volatile organic compounds (VOC) analyses
- Aroma analyses
- Vitamin dosage
- Allergen dosage
- Conservative dosage
- Polyphenol and sterol dosage
- Chemical compounds dosage by IR, UV, HPLC, GC/MS, Ionic Chromatography, TLC, TLC-densitometry...
- Elemental and metal dosage, ICP/MS, SAA
- Impurity profile and metabolites, tracer dosage...

On request a team of scientist is made available for development project, including:

- Analytical design and analytical plan
- Method development and validation
- Physico-chemical and mechanical analyses (specific gravity, viscosity, solubility test, stability, excipient/API compatibility)

QUALITY CONTROL SERVICES 2/3

GMP Quality Control

Test of Conformity:

- Identification tests (colorimetry, UV, IR, TLC, ...)
- Dosage of active substances (HPLC, GC, titration...)
- Pesticides
- Heavy metals
- Residual solvents
- Related compounds

Tailor made analyses:

- Contamination of vegetal oils with mineral oils
- Ions dosage by ionic chromatography
- Volatile compounds analyses
- Aroma analyses...

Pharmaceuticals:

- Dissolution test
- Viscosity
- Tablet hardness
- Brittleness
- Powder density
- Particle size analysis

Test in different matrices:

- Raw material
- Active substance
- By products & intermediates
- Finished product
- Vegetal matrix
- Mineral matrix
- Aqueous sample
- Oily sample
- Glycerined environment
- Alcoholized environment
- Powder...

QUALITY CONTROL SERVICES 3/3

Microbiology

Microbiological analyses are carried out in dedicated premises, equipped with bio safety cabinet and Incubation ovens.

Incubation ovens are equipped with temperature sensors connected to a tele-radio module, which data are collected in a centralized computer system emitting alert message (e.g. e-mails) in case of an anomaly.

The analyses are performed according to GMP and are matching European, Japanese, US Pharmacopeias.

The microbiology service portfolio includes:

- Counting, identification of germs
- Validation methods
- Challenge tests
- Specific bactericidal / fungicide testing
- Antibiotic resistance testing
- Endotoxins
- Sterility control
- Identification by QPCR

On different matrices:

- Raw material
- Finished product
- Herbal extract
- Herbal based product