

Composition analysis enables us to identify or quantify the concentration of a substance, multiple substances or unknown substances in a sample by utilising separation and analytical methods, which gives us a full picture of the sample.

Why Should We Do Composition Analysis?

- **Failure Analysis.** Understanding the composition of products helps us to know the underlying issues of defective products for improvement.
- **Deformulation.** It is a good approach to learn about the formulation of new products.
- R&D and Continuous Improvement. Comparing the composition of our products with that from a potential competitor or new vendor of the product provides support for R&D and continuous improvement.

Our Services

Unknown Chemicals

(raw materials/ intermediates/products)

Organic: hydrocarbons; alcohols, phenols, carboxylic acids, esters; aldehydes, ketones, quinones; halogenated compounds; heterocyclic compounds; aromatics; amino acids; proteins, nucleic acids

Inorganic: inorganic salts/ acids/ alkalis, oxides; elements

Unknown Solids /Liquids /Powders /Particles /Creams

Unknown substances in life or production, involving chemicals, food, drugs, auxiliaries; additives, cosmetics, fragrances, plastic granules, pigments

Unknown Foreign Substances and Impurities

Embedded foreign substances or irregular spots of electronics products; surface contaminants, leachables, oily/misty substances; plastics frost; yellowing and blacking of industrial products; chemical impurities and byproducts

Unknown Ores

Analysis of full ingredients in ores, such as nonferrous metal ores including tin ores, lead concentrates, bauxites, molybdenum ores, antimony ores, zinc ores and copper concentrates; ferrous metal ores ferromanganese ores.



Industries/Products

Polymers (rubber, plastics), auxiliaries, organic solvents, inks, coatings, cleansers, surface treating agents, metal processing liquid, adhesives, water treatment agents, petrochemical, inorganic materials...

About Us

Knowing the cutting-edge technology to analyse unknown substances and boasting the most authoritative data for spectrum analysis, a group of technical R&D specialists from C&K Testing (95% master's degree or above) have rich expertise in technical support and product R&D, undertake projects at national, provincial or municipal levels for years and render technical support for many Top 500 companies. C&K Testing offers a wide range of services including composition analysis, deformulation, analysis of unknown substances and failure analysis. We are a good helper in the R&D of new products, product upgrading, technical improvement, quality control, failure analysis and cost control.

Our advanced instrumentation:

- Organic analysis: Gas Chromatography-Mass Spectrometry (GC-MS), Liquid Chromatograph Mass Spectrometer (LC-MS), Nuclear Magnetic Resonance Spectrometer (NMRS), FT-IR Spectrometer (FTIR), Gel Permeation Chromatograph (GPC)
- Inorganic analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES), Inductively Coupled Plasma Mass Spectrometry (ICP-MS), Atomic Absorption Spectroscopy (AAS), Atomic Fluorescence Spectroscopy (AFS), Ion Chromatography, X-Ray fluorescence spectroscopy (XRF).











One-stop Services

Free Consulting



Low Test Charge

Short Test Duration

Contact Us



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