

Key Features

- High-resolution simultaneous analysis of various preservatives or antioxidants
- Accurate analysis
- Sufficient selectivity within a reasonable time
- A validated and sensitive HPLC method with high repeatability
- Upgradable and durable design
- Full control by PC
- Powerful data analysis software
- Exceptional sensitivity with low detection limits

Specifications

Pump	Analytical stainless-steel low-pressure gradient version, programmable dual piston pump head for low pulsation, camshaft constantly lubricated, Flow rate: 10.000-0.001 ml/min, Pressure range: 40-0 MPa (6000-0 psi)
Degasser	Integrated -4channel vacuum degasser
Detector	UV/Vis detector, Variable -1channel UV/Vis detector with deuterium and tungsten lamp, wavelength range: 800-190nm, wavelength accuracy: 2±nm, Linearity:<2.0AU, baseline noise: 1 ,5-10×1±sec Risetime
Injection System	Automatic sample injector system, Sample capacity: 120 samples (1.5 ml), Sample loop: 100 µl, Carry over: < %0.05 with wash program
Column oven temperature	30-100 °C
Solvent Organizer	Inert plastic tray with 4 bottles
Including	Clarity Chromatography Software, 21 CFR Part 11 compliant

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Food Additive Analyser

Methods: ASTM D5524-94, ASTM D6953-18

Food Additive Analyser is a dedicated system based on high-performance liquid chromatography (HPLC) with ultraviolet/visible (UV/VIS) detection to analyze various additives such as antioxidants & preservatives in food industry. HPLC is an upgraded version of liquid chromatography based on the same principle of separating mixtures of chemicals. HPLC is used as a powerful tool in chemical and biological research and is also used by industry to separate and assay complex mixtures of substances. It is based on a simple mechanical separation process wherein mobile and stationary phases separate compounds inside a narrow capillary column. HPLC allows for detailed characterization of complex samples, including size, shape, hydrophobicity, hydrophilicity, charge, structure, and molecular weight.

