

RoHS 2.0 Tester

Model: LC-2800G Plus

Simple operation and professional human-machine interaction for RoHS2.0 benzene substance detection. This product can achieve separation and detection of 80% organic compounds



Reference standards

IEC 62321-8:2017, T/CESA 1063-2019 "Determination of four kinds of phthalates in electrical and electronic products - high performance liquid chromatography"

product description

LC-2800G Plus, referred to as HPLC, is an analytical method for separating organic substances. It is an important branch of chromatography, using liquid as the mobile phase, using a high-pressure infusion system, pumping a single solvent with different polarities or a mixed solvent of different proportions, buffer solution and other mobile phases into the chromatographic column equipped with a stationary phase. After the components in the column are separated, they enter the detector for detection, so as to realize the analysis of the sample. This method has become an important separation and analysis technology application in the fields of chemistry, medicine, industry, agronomy, commodity inspection and legal inspection.

LC-2800G Plus adopts a brand-new appearance design, comprehensively improved hardware design and RoHS special environmental protection instruction system management database version system, the module does not have any buttons, and the whole process is controlled by software, which can obtain higher flow accuracy, improve repeatability, and better performance. Detection sensitivity and a more intelligent experience allow you to easily obtain reliable detection data and greatly improve work efficiency.



Test substances

Professionally respond to RoHS 2.0 phthalate four items (BBP, DIBP, DBP, DEHP) substance testing.

Can be upgraded to expand the test, after the expansion to meet the test: o-phenyl 16P, polybrominated biphenyl (PBB), polybrominated diphenyl ether (PBDE), polycyclic aromatic hydrocarbons (PAHs), formaldehyde (Formaldehyde), dimethyl formamide (DMFA), bisphenol A (BPA), CP 65 regulation response, REACH regulation response, etc.

Application Industry

electronic appliances, wire and cable, new energy, medical equipment, toys and plastics, ink coatings, packaging materials and other industries.

Product advantages



24-hour fully automatic unattended test

Equipped with Shimadzu 108-bit automatic sample injection, 24-hour unmanned automatic testing, data batch processing function, reducing labor costs.



No need for professional operators

There is no need for a professional laboratory, just choose a ventilated place, professional management, no special requirements. Junior high school level or above can be operated after training.



no exhaust

The reagents used do not need to be filed, do not involve gas, and have no risk of gas leakage.



Strong scalability

Upgradable and extended testing: polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), polycyclic aromatic hydrocarbons (PAHs), bisphenol A (BPA), CP 65 regulation response, REACH regulation response, etc.



One-click report

The output format of the test report (Excel, PDF, etc.) can be customized according to the user's requirements to meet the various statistical and format requirements of the factory; multilingual (English, Simplified Chinese, Traditional Chinese, etc.) software interface is available; the system determines whether the test results contain Contains, contains how much. No need for manual calculations.



Real-time leakage alarm monitoring function

The infusion pump, column thermostat, detector, etc. all have real-time leakage alarm monitoring function, which provides guarantee for users to realize unattended operation, and has the function of automatic cleaning of plunger rod, realizes automatic online cleaning, and reduces equipment loss and failure rate.

Anti-control version autosampler (Optional)

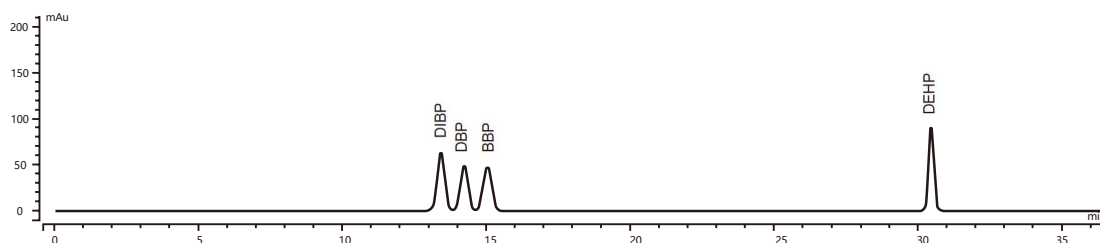
1. RoHS data processing system fully anti-control automatic sampler, no key operation to reduce manpower for the error;
2. 108 samples can be placed at one time, and the automatic tracking test can improve the test efficiency;
3. It can realize 24-hour unattended analysis and testing, reducing labor costs;
4. Direct online test without programming, simplified and simple operation;
5. The range of injection volume can be set: 0.1 to 100 μ L (standard configuration), which can satisfy any sample quality testing;
6. Reproducibility of injection volume: $RSD \leq 0.25\%$ (when 10 μ L injection), to improve the weight repeatability and precision.



- Data batch processing function
- 24 hours unattended
- 108 automatic sampling positions

Reference standards

IEC 62321-8:2017, T/CESA 1063-2019 "Determination of four kinds of phthalates in electrical and electronic products - high performance liquid chromatography"



Test spectra of four PAEs standard samples measured by HPLC

Test steps



Step 1
Split the sample



Step 2
Accurate Weighing



Step 3
ultrasonic extraction



Step 4
Cooling and constant volume



Step 5
Test on the machine

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