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LPC-7CE Intelligent Liquid Particle Counter

LPC-7CE



Product Description

LPC-7CE Intelligent Particle Detector Designed for the pharmaceutical industry, LPC-7CE can accurately detect the insoluble particles (1-500μm) of injection solution, package material and infusion apparatus in strict compliance with the Chinese and American Pharmacopoeias and GB/YBB standards.Adopting imported laser light source and high pressure syringe pump technology, it supports the detection of high viscosity samples and organic solvents. With intelligent touch screen and million data management, it meets the compliance needs of laboratories, pharmaceutical companies and medical devices to ensure drug safety and quality control.

Features

- Complies with the 2025 editions of the Chinese Pharmacopoeia, United States Pharmacopoeia, and European Pharmacopoeia, allowing direct testing of injectable solutions, sterile powders, and insoluble particulate matter content.
- Utilizes a high-performance imported laser light source and compensation circuit to ensure testing accuracy for various colorless and colored samples, and allows direct testing of samples without electrolytes.
- Employs an imported high-pressure injection pump sampling system, allowing for adjustable injection volume based on the sample type, ensuring high injection accuracy and meeting the testing requirements for high-viscosity samples. It is also unaffected by geographical location and suitable for use at different altitudes.
- The injection slit and tubing are made of imported 316L and PTFE materials, allowing for direct testing of organic solvents, oil-based solutions, and other special solutions.
- Different high-pressure injection systems can be replaced according to the required injection volume.
- US Standards: USP787, USP788, USP789
- Full-channel testing (exceeds pharmacopoeia instrument calibration requirements)
- Uses a propeller-type glass stirrer with adjustable speed, allowing for precise control of stirring speed and ensuring uniform distribution of particles in the container, improving data accuracy.
- Computer-operated, easy and fast to operate, and powerful in functionality. Can simultaneously display multi-channel test data.
- Can be connected to LIMS and other software management platforms, with dedicated data analysis software for data saving and statistics.
- Electronic signature (account password login)
- Four levels of password management authority
- Password expiration reminder
- Data query and export (can be exported to a USB drive or saved to another location) in PDF format.
- Behavioral data query and export (can be exported to a USB drive or saved to another location)
- Password complexity setting (combination of letters, symbols, and numbers)
- Single machine supports management of 1000 operators
- 3Q certification documents and materials are available.

Functional parameters

Model	LPC-7CE
Channel settings	≥ 2 μm, ≥ 3 μm, ≥ 4 μm, ≥ 5 μm, ≥ 6 μm, ≥ 8 μm, ≥ 10 μm, ≥ 12 μm, ≥ 15 μm, ≥ 18 μm, ≥ 20 μm, ≥ 22 μm, ≥ 25 μm, ≥ 50 μm, ≥ 75 μm , > 100 μm (sixteen channels)
Test range	1~500μm (segmented sensor required)
Technical range	0~9999999 particles
Injection volume	0.2ml - 1000ml (accuracy 0.1ml)
Injection volume accuracy	<±0.5% (0.2ml~1000ml)
syringe volume	Standard size is 10ml. Other sizes can be interchanged.
Sampling time	5ml (< 8 seconds 100ml (< 5 minutes) Sampling time can be set according to needs .
Injection rate	2~100ml/min, set arbitrarily
Counting accuracy	<Specified value ±5%
Channel resolution	>95%
Relative standard deviation	RSD < 1.5% (standard particles ≥ 1000 particles/ml)
Optimal detection concentration	0~18000 tablets/ml
Stirring speed	0~2000 rpm, propeller type, adjustable
Operating temperature	10~40℃
Operating voltage	AC220V ±10%; 50Hz; <80W

Applications

The intelligent particle detector is designed for the pharmaceutical, medical device and packaging material industries. It is suitable for particle contamination detection of injections, sterile powders, small-volume injections and other drugs, filtration rate verification of infusion equipment (such as anesthesia bags, precision filters), and compliance testing of drug packaging materials (glass bottles, rubber stoppers). It also meets the high-precision data requirements of laboratory research and development, GMP production quality control and third-party testing agencies, and comprehensively protects drug safety and quality.



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