BioLAB

PRODUCT CATALOG

ATOMIC ABSORPTION SPECTROPHOTOMETER BJN1E1 (BAAS-604)

CE ISO9001 CERTIFIED

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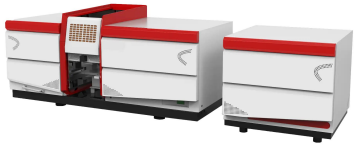
ATOMIC ABSORPTION SPECTROPHOTOMETER BJN1E1

ATOMIC ABSORPTION SPECTROPHOTOMETER

An analytical technique used to measure the concentrations of elements in a sample. The system is incredibly sensitive and can detect down to micrograms (?g). It is performed by focusing a beam of known wavelength of ultraviolet (UV) light through a flame and into a detector.



Eight lamp flame/graphite furnace integrated machine. Automatic PC controls three light bricks, automatic alignment, automatic optimization and automatic ignition. With automatic safety protection function, anti-tempering automatic gas path protection, acetylene gas leak- age alarm, automatic shutdown system, abnormal automatic power-off.

SPECIFICATIONS

Model	BJN1E1
Old Model	BAAS-604
Grating	1800 l/mm
Wavelength Range	190-900 nm
Spectral Bandwidth	0.1, 0.2, 0.4, 1.0, 2.0 nm (automatic adjustable)
Wavelength Accuracy	≤ 0.15 nm
Wavelength Repeatability	± 0.1 nm
Baseline Stability	≤ ±0.002 A /30 minutes (static), ≤ ±0.005 A /30 minutes (dynamic)
Light Source	≤ 8 lamps automatic turret, automatic alignment
Power	Double cathode power built-in high performance lamps
Flame atomizer	
- Characteristic concentration (Cu)	0.015 μg/mL/1%
- Detection limits (Cu)	0.002 μg/mL
- Precision	RSD ≤ 0.5 %
- Combustion head	Metal Titanium combustion head
- Atomizer	Efficient glass atomizer
- Atomizing chamber	Explosion proof corrosion resistant material spray chamber
- Control system	Automatic PC control three light brick, automatic alignment, automatic optimization and automatic ignition
- Safety protection	With automatic safety protection function, anti tempering, automatic gas path protection, acetylene gas leakage alarm, automatic shutdown system, abnormal automatic power-off
- Background correction	Deuterium background correction: correction of the 1A background
Data processing	
- Measurement methods	Flame method, Hydride method
- Concentration calculation method	Standard curve method (1 - 3 times curve), automatic matching, the standard addition method
- Repetition survey frequency	1-99 times, calculating the average value, standard deviation and relative standard deviations are given
- Results print	Parameters print, data and graphics print, export WORD and EXCEL document; Simple operation, lamp position rotating, automatic ignition through software
Communication interface	Computer and USB interface communication
Power requirements	220 V (+5 % ~ -10 %), 50/60 Hz; 5000 VA
Environment temperature	+15 °C ~ +35 °C
Relative humidity	20 ~ 80 %
Alt Name	Atomic Absorption Spectrophotometer

APPLICATIONS

Food and Beverage Industry, Water Analysis, Clinical Research, Pharmaceutical, Mining and Geology, Environmental Monitoring, Oil and Petroleum, Forensics.

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