BioLAB

PRODUCT CATALOG

ATOMIC ABSORPTION SPECTROPHOTOMETER BFU1CN1

CE ISO9001 CERTIFIED

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ATOMIC ABSORPTION SPECTROPHOTOMETER BFU1CN1

ATOMIC ABSORPTION SPECTROPHOTOMETER

The Atomic Absorption Spectrophotometer is fully PC controlled. It can be flexibly equipped with an optional graphite furnace, auto sampler and hydride generator. Unique optical mechanical design, safe and convenient flame system, optional background correction technologies, as well as convenient functions provided by the workstation, suit your pursuit of automatic and precise test results.

1. Excellent total reflection optical system ensures excellent signal-to-noise ratio of the instrument.
2. Comprehensive and safe intelligent gas control module.
3. Excellent full band deuterium lamp background correction technology and high-performance self absorption double background correction.
4. Fully automatic instrument control, light source supports high-performance element lamp, and can be completed quickly with one key.
5. Original lamp position eight lamp holder 360 degree rotation design.
6. Novel atomizer and intelligent elevator.
7. Simple, professional, automatic and fully operated RG WIN AAS workstation software under MS window system.

SPECIFICATIONS

Model	BFU1CN1
Optical System	Single Beam
Monochromator	Czerny-Turner type, focal lengths at 350mm
Grating	Holographic diffraction with 1800 lines/mm
Wavelength Range	190-900 nm
Slits	Automated slit selection 0.1, 0.2, 0.4, 0.7, 1.4, 2.0 nm
Wavelength Repeatability	±0.1nm
Wavelength Accuracy	±0.3 nm
Lamp	Automated 4-lampturret
Reading Mode	T, A, C
Photometric Range	0-125%, -0.1-3.00A
Static Baseline Drift (Cu)	≤0.004A/30 min
Dynamic Baseline Drift (Cu)	≤0.006A/15 min
Background Correction	Deuterium (D2) Background Correction
Flame	
--Characteristic Concentration	≤0.04ug/ml
--Detection Limit (Cu)	≤0.008ug/ml
--Repeatability (Cu)	RSD≤1%
--Acetylene Flow Control	Auto 12-Level
--Air Assist Control	Auto 4-Level
--Ignition Method	PC control
--Detector	Wide range UV sensitive photomultiplier tube
--Burner Head	Titanium 100mm burner for air/acetylene operation
--Nebulizer	High efficiency glass nebulizer
--Spray Chamber	Corrosion resistant material spray chamber
-Safety Protection	Automatically cut off gas in case of low pressure, power failure, flame out, or burner mismatched
Auto Sampler	Optional
Graphite Furnace	
--Characteristic Amount	Cd≤1pg, Cu≤22pg

--Heating range of graphite furnace	Room temperature-3000℃
--High power heating range	1500-3000℃
--Slope and holding time	1-255s
-Heating rate	Maximum heating rate 2000℃/s
--Atomization heating mode	Light-controlled heating, Time-controlled heating, General heating
--Heating rate	1 L/min
--Protective gas flow inside pipe	4-speed adjustable (0, 50, 200, 250/min flow)
Data Processing	
--Measuring method	Flame method, Graphite furnace method, Hydride generation-Atomic absorption method, Flame emission method
-Concentration calculation method	Standard curve method (6 linear/non-linear fitting methods), Standard addition method, Interpolation method
-Repeat measurement times	1-30 times, Calculate and give the average value of absorbance/concentration, standard deviation and relative standard deviation
-Report printing	Parameter printing, Data result printing
-Dimensions/ Weight	850 x 650 x 550 mm/95kg
-Ambient Temp.	10 ~ 35 ℃
-Ambient Humidity	≦85 %
-Power	110/220V, 50/60Hz
Alt Name	Atomic Absorption Spectrophotometer

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