ATOMIC ABSORPTION SPECTROPHOTOMETER

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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.

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

Also known as Atomic Absorption Spectrometry, Metal Analysis Spectroscopy..

BAAS-601 ATOMIC ABSORPTION SPECTROPHOTOMETER

Three lamp flame method. With automatic safety protection function, anti temperingautomatic gas path protection, acetylene gas leak- age alarm, automatic shutdown system, abnormal automatic power-off.

SPECIFICATIONS

Model	BAAS-601
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	≤ 3 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 temperingautomatic gas path protection, acetylene gas leak- age 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, you can also export WORD, EXCEL document
	Simple and convenient operation, lamp position rotating, automatic ignition through software operating
Communication interface:	Computer and USB interface communication
Power requirements	
	220 V (+5 % ~ -10 %), 50/60 Hz; 5000 VA
Environment temperature	
	+15 ℃ ~ +35 ℃
Relative humidity	
	20 ~ 80 %

BAAS-602 ATOMIC ABSORPTION SPECTROPHOTOMETER

Six lamp flame method. 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	BAAS-602
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	≤ 6 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 leak- age 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, you can also export WORD, EXCEL document
	Simple and convenient operation, lamp position rotating, automatic ignition through software operating
Communication interface:	Computer and USB interface communication
Power requirements	
	220 V (+5 % ~ -10 %), 50/60 Hz; 5000 VA
Environment temperature	
	+15 ℃ ~ +35 ℃
Relative humidity	
	20 ~ 80 %

BAAS-603 ATOMIC ABSORPTION SPECTROPHOTOMETER

Six lamp flame/graphite furnace integrated machine. With automatic safety protection function, anti temperingautomatic gas path protection, acetylene gas leak- age alarm, automatic shutdown system, abnormal automatic power-off.

SPECIFICATIONS

Model	BAAS-603
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	≤ 6 lamps automatic turret, automatic alignment
Power	Double cathode power built-in high performance lamps
Flame atomizer	
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 temperingautomatic gas path protection, acetylene gas leak- age 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, you can also export WORD, EXCEL document
	Simple and convenient operation, lamp position rotating, automatic ignition through software operating
Communication interface:	Computer and USB interface communication
Power requirements	
	220 V (+5 % ~ -10 %), 50/60 Hz; 5000 VA
Environment temperature	
	+15 ℃ ~ +35 ℃
Relative humidity	
	20 ~ 80 %

BAAS-604 ATOMIC ABSORPTION SPECTROPHOTOMETER

Eight lamp flame/graphite furnace integrated machine. Automatic PC control three light brick, 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	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 temperingautomatic gas path protection, acetylene gas leak- age 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, you can also export WORD, EXCEL document
	Simple and convenient operation, lamp position rotating, automatic ignition through software operating
Communication interface:	Computer and USB interface communication
Power requirements	
	220 V (+5 % ~ -10 %), 50/60 Hz; 5000 VA
Environment temperature	
	+15 ℃ ~ +35 ℃
Relative humidity	
	20 ~ 80 %

BAAS-605 ATOMIC ABSORPTION SPECTROPHOTOMETER

Six lamp flame method. Full titanium combustion head, 50 mm or 100 mm general combustion head and polymer explosion-proof spray chamber. With customisable atomizer efficient glass atomizer.

SPECIFICATIONS

Model	BAAS-605
Light Source	≤ 8 lamps automatic turret, automatic alignment
Power Supply	110/220 V (+5% ~ -10%), 60/50 Hz; 5000 VA

Lamp Current	Pulsed power supply
Optical System	Large 1800 /mm grating ruling, full closed optical system
Wavelength Range	185 - 900 nm. Automatically peak find,a key opticaloptimization function
Wavelength Accuracy	± 0.15 nm
Wavelength Repeatability	< 0.10 nm
Spectral Bandwidth	0.1, 0.2, 0.4, 0.7, 1.0, 1.4, 2.0 nm (7 steps with automatic changeover)
Baseline Stability	≤ ± 0.002A/30 min (Static) ≤ ± 0.004A/30min (Dynamic)
Absorbance Range	0 - 4 A
Flame Analytical System	
Detector:	Imported photomultiplier tube
Burner Head:	Full titanium combustion head, 50 mm or 100 mm general combustion head
Atomization Chamber:	Polymer explosion-proof spray chamber
Nebulizer:	Atomizer efficient glass atomizer, can also be customized
Ignition Type:	Microcomputer control, automatic ignition
Gas Control:	Automatic gas control system
Detection Limits(Cu):	0.002 µg/mL
Precision:	RSD ≤ 0.5%

BAAS-606 ATOMIC ABSORPTION SPECTROPHOTOMETER

Eight lamp flame/graphite furnace integrated machine. Imported photomultiplier tube. The graphite tube damage, water flow air pressure and other alarmtemperature overheating protection.

SPECIFICATIONS

Model	BAAS-606
Light Source	8 lamps automatic turret, automatic alignment
Power Supply	110/220 V (+5% ~ -10%), 60/50 Hz; 5000 VA
Lamp Current	Pulsed power supply
Optical System	Large 1800 /mm grating ruling, full closed optical system
Wavelength Range	185 - 900 nm. Automatically peak find,a key opticaloptimization function
Wavelength Accuracy	± 0.15 nm
Wavelength Repeatability	< 0.01 nm
Spectral Bandwidth	0.1, 0.2, 0.4, 0.7, 1.0, 1.4, 2.0 nm (7 steps with automatic changeover)
Baseline Stability	≤ ± 0.002A/30 min (Static) ≤ ± 0.004A/30min (Dynamic)
Absorbance Range	0 - 4 A
Flame Analytical System	
Detector:	Imported photomultiplier tube
Burner Head:	Full titanium combustion head, 50 mm or 100 mm general combustion head

Atomization Chamber:	Polymer explosion-proof spray chamber
Nebulizer:	Atomizer efficient glass atomizer, can also be customized
Ignition Type:	Microcomputer control, automatic ignition
Gas Control:	Automatic gas control system
Detection Limits(Cu):	0.002 μg/mL
Precision:	RSD ≤ 0.5%
Graphite Furnace Analytical System	
Heating Mode:	Vertical heating
Temperature Control Method:	Vertical optical temperature monitoring graphite tube wall temperature
Temperature Range:	Room temperature to 3000 ℃
The Program:	Automatic temperature control up to 20 order
Temperature Control:	The furnace enriched up to 20 times
Characteristics Volume:	0.4 x 10 - 12 g (Cd)
Detection Limit: Graphite Furnace Analytical System:	0.4 x 10 - 12 g (Cd)
Precision:	RSD ≤ 2%
The Cooling Water:	Can choose cooling water circulation system
Safety:	The graphite tube damage, water flow air pressure and other alarmtemperature overheating protection