Rugged. Reliable.

Agilent 55B AA spectrometer

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The Agilent 55B AA instrument is rugged and reliable, making it ideal for remote sites requiring a simple, standalone, double beam AA that doesn't compromise on performance.

High performance, standalone AA

– Simple control via the LCD screen and dedicated keyboard

– High sample throughput using Integrate Repeat

– Simple calibration with direct concentration readout

– Configured for direct LIMS connection via RS-232

– Suitable for challenging conditions and harsh environments

Fast, simple operation

– Easy set-up. View and edit instrument parameters on screen

– No complex alignment. Wavelength and slit selection is fully automated

– Improve result accuracy. Two lamp positions enable operation while prewarming the lamp for the next element

Storage for all your methods

– Cookbook methods provided for all elements

– Recall and modify methods at any time

– Save up to 30 customized methods for common analyses

Onscreen results display

– Confirm results with each replicate reading

– Review the concentration, precision, and absorbance result

– View the calibration to visually check linearity and check concentration or absorbance results

– Multiple language capabilities are standard. Select from eight languages at any time via the Options menu

– The industrial LCD screen and dedicated keypad are suitable for rugged laboratory conditions, unlike failure-prone touch screens

Rugged design for lifetime operation

– Ideal for operation in challenging conditions

– Sealed optics with quartz overcoated mirrors provide protection from dust or vapors and ensure long term, stable performance

– Enhance protection using the internal air purge to maintain a positive flow of clean air through the instrument

Achieve precise results quickly and handle complex matrices with Agilent's flexible and convenient Mark 7 atomization system.

Tune your performance

- Achieve precise results quickly and handle complex matrices with Agilent's flexible and convenient Mark 7 atomization system

- Tune performance using the externally adjustable impact bead

- Achieve high sensitivity—typically > 0.9 Abs from 5 mg/L Cu

- Optimize precision—typically < 0.5% RSD from 10 five second readings

- Reduce interferences with complex samples. The removable twin headed mixing paddles ensure thorough mixing and a superfine aerosol, for precise, accurate determinations

- Minimize burner blockage—the contoured design provides outstanding resistance to blockage, even with difficult samples

- Inert components provide compatibility with high acid and organic matrices

Deuterium background correction

- Provides accurate correction with a fast 2 ms response time

- Easy access to the deuterium lamp within the lamp compartment

- Simple lamp optimization and fast user replacement

- Long lamp lifetime due to the optimized electronic control

Optional upgrades

- Add a printer for hard copy results

- Add the SIPS 10/20 for online dilution capability

- Add the VGA 77 for trace level determinations of mercury and hydride forming elements (As, Se, etc.)

- Add a PC for semi-automated, sequential, multi-element determinations using the SPS 4 autosampler

Determination of low As levels in high nickel ores

Excellent reproducibility and good read back on the QC standards is achieved, even with < 1 ppm As in solution, eliminating the need for extraction.

Sample ID	Concentration mg/L	Mean Abs	Recovery
CAL ZERO	0.0	−0.0033	
STANDARD 1	25.0	0.1717	
STANDARD 2	50.0	0.3342	
STANDARD 3	75.0	0.4805	
STANDARD 4	100.0	0.6186	
50ppm Standard 2	49.1	0.3281	
Blank	0.2	0.0017	
Sample 001	13.3	0.0916	
Sample 001Dup	13.8	0.0950	104%
50 ppm Standard 2	45.6	0.3064	91%
Sample 013	11.9	0.0816	
Sample 014	5.7	0.0395	
Sample 013 Dup	11.5	0.0791	97%
Sample 014 Dup	5.4	0.0372	95%
Sample 017	0.1	0.0007	
100 ppm Standard 4	92.6	0.5790	93%
Sample 023	23.4	0.1604	
Sample 024	12.2	0.0841	
Sample 025	0.6	0.0043	
Sample 026	0.9	0.0065	
100 ppm Standard 4	97.3	0.6029	97%
Sample 023 Dup	23.6	0.1613	101%
Sample 024 Dup	12.0	0.0828	98%
Sample 024 Dup	11.6	0.0801	95%
Sample 023 Dup	23.9	0.1634	102%
Blank	−0.3	−0.0019	

Perform trace level determination of mercury and hydride forming elements precisely with Agilent's VGA 77.

Agilent CrossLab: Real insight, real outcomes

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