



Agilent 55B AA Spectrometer

RUGGED. RELIABLE.

The Measure of Confidence



Agilent Technologies

RUGGED. RELIABLE.

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 read-out
- Configured for direct LIMS connection via RS232
- 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 pre-warming 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

On-screen 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 ten 5 s readings
- Reduce interferences with complex samples. The removable twin headed mixing paddles ensure thorough mixing and a super-fine 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 on-line 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 001 Dup	13.8	0.0950	104%
50ppm 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.

For more information

Learn more

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