BOHUI
Beijing Bohui Innovation Biotechnology Group Co., Ltd.

The BOHUI Atomic Absorption Spectrometer（BH5500S）can measure the concentration of copper,zinc,calcium,magnesium and iron elements in biological samples quickly and accurately. With a sample of 300 μL of serum, or 40 μL of whole blood, the analyzer can measure all five or seven

Integrated Detection Systems for Beneficial and Toxic Trace Elements

Key Applications:

Clinical Diagnostics :

Assess nutritional status, monitor occupational exposure and acute poisoning.

Health Screening:

For children, pregnant women, and other high-risk groups.

Core Technologies:

Multi-Element Analysis: Copper(Cu), Zinc(Zn), Calcium(Ca), Magnesium(Mg), Iron(Fe), Lead(Pb), Cadmium(Cd), Potassium(K), Sodium(Na).

Rapid Detection：Beneficial trace elements in 2–3 seconds, toxic trace elements in 1.5 minutes.

High Performance：Sensitivity:detection limit of copper is ≤0.02μg/mL, Precision:The CV less of trace elements than 1.0%.

Optical Dilution™: Patented multi-channel angle echnology for enhanced accuracy.

Key application population

● Children under 6 years old   ● Pregnant women   ● Individuals with related symptoms
● Suboptimal health groups   ● Occupational contact groups

Technical Parameters

Parameter	Systems for Beneficial Trace Elements	Systems for ToxicTrace Elements
Method	Flame Atomic Absorption Spectroscopy	Graphite Furnace /Tungsten Atomic Absorption Spectroscopy
Model	BH5500S/5100S/5300S/7100	BH2100S/2101S/2200S
Elements	Cu, Zn, Ca, Mg, Fe, K, Na	Pb, Cd
Detection Time	2–3 seconds/test	1.5 min/test
GAS SOURCE	Acetylene	Argon
Sample	Whole blood, Serum, Urine, Milk	
Certifications	CE, NMPA, WHO-collaborated, National Standard	

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