

ANDalyze Tech Specs

Heavy metal analysis in less than one minute. Broad applications extending from industry to schools.



EPA Validated Technology

ANDalyze offers a hand-held fluorimeter and sensors for field analysis of soluble heavy metal content in water supplies. The unit provides accurate readings in seconds, and is a breakthrough in efficiency, accuracy and ease-of use for field applications. No special skills, chemistry knowledge, hazardous materials or harmful reagents are required. Overall costs are minimized by reducing complexity and time to result.

Specifications

Metal	Colour	*Range	Analyte
Lead	Green	2-100 ppb	Pb ²⁺
Copper	Blue	0.1-2 ppm	Cu ⁺ / Cu ²⁺
Uranium	Orange	2 – 60 ppb	Uranium V1, UO ₂ ²⁺
Mercury	Silver	2ppb (over/under) 50 ppb limit	Hg ²⁺
Zinc	White	1-15 ppm	Zn ²⁺
Cadmium	Yellow	0.1-1ppm	Cd ²⁺

Sensors for chromium, trace metals and even E.coli bacteria available soon.

DNAzyme Technology

ANDalyze's proprietary Catalytic DNA sensors use a DNAzyme reaction that fluoresces in the presence of a target contaminant such as lead. Fluorescence is measured to determine the soluble concentration of the target heavy metal and is reported in parts per billion (ppb). The analysis is performed by taking a 1 milliliter water sample, injecting it through the sensor, and into the fluorometer. Without additional intervention, the sample is then analyzed and results are reported in less than one minute.

