Mercury Analyser – Hg Analyser

The AMA254 technique offers direct analysis of trace Hg in a variety of sample media. A combustion/catalyst tube decomposes samples in an oxygen-rich environment, removing interfering elements. An Au amalgamator trap then collects all Hg from the evolved gases and a dual-path length cuvette/spectrophotomer specifically determines Hg concentrations over a wide dynamic range.

Samples

LECO's AMA254 determines trace amounts of Hg in various materials, including soils, biological samples, coal, combustion residues and other solid/liquid samples. The dried and powdered samples can be weighed directly into the boat placed on the balance.

Benefits

- Determination of mercury in liquid and solid samples
- Fast, safe and accurate determination of traces of mercury
- Results in ten minutes
- No sample pre-treatment required.
- Automated sampler on the combustion/catalyst tube.

Limitations

- Flammable or explosive materials are prohibited.
- No corrosive substances (e.g. concentrated acids) can be analysed

Applications

Table 5 - AMA254 Applications

Application	**Determination of Mercury in Plant Tissue**	**Determination of Mercury in Sewage Sludge**	**Total Mercury in Soils**
Results unit	ppm	ppm	ppm
Sample type	Plant Tissue (Vegetable Food)	Sewage Sludge	Soils
Analytes	Mercury	Mercury	Mercury
Validation	Potential analyses requiring development and/or validation		
Analysis time per sample	10 min	10 min	10 min