

Anaerobic Micronutrient Analysis

Analysis of 20 Micronutrients Essential for Anaerobic Digesters

Understanding your digester's micronutrient content is the key to effective anaerobic digestion. Anaerobic micronutrient deficiencies can lead to poor methane production, poor volatile solids destruction, and an increase in hydrogen sulfide production. Our soluble and insoluble metals testing tests for 20 micronutrients and compares soluble and insoluble fractions of metals for a more accurate picture of metal bio-availability.

Micronutrients are categorized into four groups based on their impact on anaerobic digestion and biogas production.

| Micronutrient Analysis | | | |
|---------------------------|------------------------|----------------------|----------------|
| Essential for Methanogens | General Micronutrients | Environmental Toxins | Salts |
| Cobalt (Co) | Manganese (Mn) | Cadmium (Cd)* | Aluminum (Al) |
| Molybdenum (Mo) | Copper (Cu)* | Chromium (Cr)* | Potassium (K) |
| Selenium (Se)* | Zinc (Zn)* | Lead (Pb)* | Calcium (Ca) |
| Iron (Fe) | Boron (B) | Arsenic (As)* | Magnesium (Mg) |
| Nickel (Ni)* | Barium (Ba) | Mercury (Hg)* | Sodium (Na) |

* micronutrients marked with an asterisk are of special importance, as they are identified as metals and metalloids of interest by the EPA.

FOR BEST RESULTS:

 Please submit one full container (1L) of each, digestate and influent samples. If digestate is inaccessible, effluent is an acceptable alternative. **5 DAYS**



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