

# Digestate Testing

## Why do digestate testing?

### Benchmark Your Performance

Digestate testing sets measurable benchmarks for your healthy digester, then lets you see how it is performing relative to industry benchmarks.

### Troubleshoot Poor Performance

There could be feedstock causing toxicity or inhibition, or incomplete digestion due to nutrient deficiencies. With our expertise and good data, Azura can identify steps to correct the feeding balance and nutrition to get your digester back to optimal production.

**Good digesters run on good data.**



## What is included?

Testing packages are tailored to individual needs. They may include:

- pH
- Solids – Total & Volatile Solids (TS & VS)
- Oxygen Demand (COD & BOD)
- Fats, Oils, and Grease (FOG)
- Long-Chain Fatty Acids (LCFA)
- Volatile Fatty Acids (VFA)
- Nitrogen, Phosphorous, Potassium, & Sulfur
- Trace Metals
- Volatile Organic Compounds (VOCs)
- RMP (Residual Methane Potential)

Data collected during digestate analysis answer questions about the efficiency and effectiveness of your digester.

## Better Testing + Better Data = Better Decisions

*“We get quarterly digester health testing from Azura and the reports and meetings to explain the report have helped my understanding of the digester and the operators understanding of the digester. I particularly appreciate the target ranges for digester health parameters that give me the tools to prioritize digester health among the various maintenance needs of our assets.”*

– Azura Client

# Digestate Testing Process

## Initial Discussion with Azura to:

- Understand the digester questions you need answered
- Review your options. Azura offers 4 levels of digestate testing packages.

## Curious about your digester's biological efficiency?

While digestate testing is part of normal operations and troubleshooting, the RMP test answers if your digester harvests as much biogas as it possibly can from your feedstocks.

**Goal:** Check regular performance or troubleshoot operations  
**Time:** 3 weeks from sample receipt

Decide the type of testing that suits your situation

**Goal:** Identify how much biogas is being lost due to inefficiency  
**Time:** 6 weeks from sample receipt

Digestate Characterization

Residual Methane Potential (RMP)

Sampling and Shipping Plan



Sampling and Shipping

Sample Receipt

Laboratory Testing

We require at least 2 L of digestate.

To get representative results we ask you **call before sending samples** so that we can discuss how samples are collected and shipped for best results.

## Results Report and Discussion:

- Talk through the results with an expert so that you get answers not just numbers
- Know your risks, opportunities, and benchmark your digestate against industry averages

**Benchmarking** compares digestate against industry norms, turning test results into practical insight for operating and commercial decisions.

**Get your digester operating as it should, contact Azura today to discuss digestate testing.**