LFGTE Certification: Required Results for Each Test (ASTM and ISO)

Below is a breakdown of the specific results required for each test method, including ASTM D5526, ASTM D5511, and ISO 15985.

1. ASTM D5526 – Long-Term Anaerobic Biodegradation in Landfills Required Results:

- ≥8-15% biodegradation within one year
- Correlates to long-term landfill performance, projecting complete biodegradation within landfill gas management timeframes Minimum Pass Criteria for LFGTE Certification:
- Meets or exceeds 8-15% biodegradation within one year
- Demonstrates potential for full degradation over landfill gas management periods

  Failure Conditions:

- Biodegradation rate below 8% in one year
- Lack of measurable methane recovery potential

2. ASTM D5511 & ISO 15985 Benchmarks (Indicators of Biodegradability) Required Results:

- ≥30-50% biodegradation within 30-90 days
- Serve as accelerated tests to confirm inherent anaerobic biodegradability potential Minimum Pass Criteria for LFGTE Certification:
- Must be correlated with ASTM D5526 results to determine long-term landfill performance

  Failure Conditions:

- Failure to meet 30% biodegradation threshold within test duration
- Lack of correlation to long-term landfill degradation performance

Final Certification Requirements for Brands To qualify for LFGTE Certification, brands must:

- Submit official laboratory reports from ISO 17025-accredited facilities
- Meet or exceed the minimum biodegradation and methane recovery benchmarks
- Provide full product testing data
- Successfully pass **Biochemical Methane Potential** testing to validate landfill gas-to-energy compatibility