



The Leader in Biodegradability Testing

Aropha is your trusted partner for biodegradability testing and certification. We are an accredited laboratory focused on delivering excellent customer service and short testing turnaround times for an extensive range of OECD, ISO, and ASTM methods related to biodegradability. **We let you focus on your core competencies and work alongside your team to ensure your product meets your regulatory requirements.**

About Us

Being ISO/IEC 17025:2017 certified and Good Laboratory Practice compliant, we are committed to advancing the development process for biodegradable materials by providing rapid, affordable testing. Our team brings together expertise in environmental engineering, water chemistry, biology, data science, automation, and software engineering to set new standards for the way biodegradability testing is done.

Contact Us

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Phone: +1 (440) 252-5235

Address: 21564 Alexander Road,
Bedford, Ohio 44146, USA



Our Services

R&D Screening

We partner with your team either on a test-by-test basis or annual commitment to act as an extension of your development team performing materials screening for a wide range of test methods.



Biodegradability Certification

When it comes to proving your products' biodegradability, we have you covered. We offer many different OECD, ISO, and ASTM methods to provide the certifications you need for your products.



Prediction via AI

Our biodegradability prediction algorithm is the most applicable algorithm in the industry. We draw from over 12,000 data points to accurately predict your materials' biodegradability likelihood.



Our Test Methods

Freshwater

Method	Description	Duration	Certification*	Screening*
OECD 301B	Ready biodegradability, CO ₂ evolution	28 days	\$1,399	\$699
OECD 301D	Ready biodegradability, closed bottle	28 days	\$999	\$499
OECD 301F	Ready biodegradability, oxygen consumption	28 days	\$999	\$499
OECD 302B	Inherent biodegradability, Zahn-Wellens/EMPA	28 days	\$1,599	\$899
OECD 303A	Simulated biodegradation, sludge simulation	9-12 weeks	Variable	Variable
ISO 9408	Ultimate biodegradability, oxygen consumption	28 days	\$999	\$499
ISO 9439	Ultimate biodegradability, CO ₂ evolution	28 days	\$1,399	\$699
ISO 9888	Ultimate biodegradability, static/Zahn-Wellens	28 days	\$1,599	\$899
ISO 10707	Ultimate biodegradability, closed bottle	28 days	\$999	\$499
ISO 11733	Simulated biodegradation, sludge simulation	Up to 12 months	Variable	Variable
ISO 14851	Ultimate biodegradation, oxygen consumption	2-6 months	\$2,399	\$1,299
ISO 14852	Ultimate biodegradation, CO ₂ evolution	2-6 months	\$2,799	\$1,499
ASTM D5864	Lubricant biodegradability, CO ₂ evolution	28 days	\$1,799	\$899
ASTM D6731	Lubricant biodegradability, oxygen consumption	28 days	\$1,399	\$699

Marine

Method	Description	Duration	Certification*	Screening*
OECD 306 (II)	Seawater biodegradation, closed bottle	28 days	\$1,399	\$699
ISO 16221 (II)	Seawater biodegradation, closed bottle	Up to 60 days	\$1,399	\$699
ISO 16221 (III)	Seawater biodegradation, two-page closed bottle	Up to 60 days	\$1,399	\$699
ISO 16221 (IV)	Seawater biodegradation, CO ₂ evolution	Up to 60 days	\$1,799	\$999
ISO 23977-1	Seawater biodegradation of plastics, CO ₂ evolution	Up to 2 years	\$3,399	\$1,699
ISO 23977-2	Seawater biodegradation of plastics, oxygen consumption	Up to 2 years	\$3,399	\$1,699
ASTM D6691	Seawater biodegradation of plastics	Up to 90 days	\$2,599	\$1,299

Soil

Method	Description	Duration	Certification*	Screening*
ISO 17556	Ultimate biodegradation of polymers in soil	Up to 6 months	\$2,599	\$1,299
ASTM D5988	Ultimate biodegradation of polymers in soil	Up to 6 months	\$4,599	\$2,299

Composting

Method	Description	Duration	Certification*	Screening*
ISO 14855	Composting	1.5-6 months	\$4,399	\$2,399
ISO 20200	Disintegration of plastics	Up to 12 weeks	\$3,299	\$1,899
ASTM D5338	Composting	1.5-6 months	\$6,799	\$3,599
ASTM D6400	Plastics labeling	Up to 6 months	\$12,899	\$7,499

Anaerobic Biodegradation

Method	Description	Duration	Certification*	Screening*
OECD 311	Anaerobic biodegradability of organic compounds	Up to 60 days	\$2,399	\$1,299
ASTM D5511	Anaerobic biodegradability of plastics	15-30 days	\$3,199	\$1,799

Toxicity

Method	Description	Duration	Certification*	Screening*
OECD 208	Plant toxicity	14-21 days	\$2,599	\$1,599
OECD 209	Toxicity to microorganisms	1 day	\$699	\$599

Other Analyses

Method	Description	Duration	Certification*	Screening*
OECD 120	Solubility testing	2-3 days	\$399	\$399
Chemical Oxygen Demand	-	1 day	\$50	\$50
Organic Carbon (C%)	-	10 days	\$110	\$110

*Pricing based on a pay-per-test basis

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Started Today!**

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