

Ready Biodegradability Test - CO2 Evolution

# **OECD 301B**

Environment: Aerobic, Freshwater Measurement Parameter: CO2 Evolution



OECD 301B is a ready biodegradability test.

In order for a test item to be considered readily biodegradable, it must reach 60% in a 10-day window (The 10-day window starts once the test item reaches 10% degradation, and it must be before day 28). If it passes, it assumes the test item will undergo rapid and ultimate biodegradation in the environment.

#### **Test Recommendations**

Solubility	Can be soluble or insoluble
Adsorption	Can be adsorbing
Volatility	Must be non-volatile
Inhibitory	No microorganism inhibition

## **Equivalent & Similar Tests**

ASTM D5864 ISO 14852



## **Test Application**

This test is common for lubricants, greases, oils, surfactants, and personal care products.

To be exempt from the EU microplastics directive, the test item must reach 60% degradation in 60 days. (Does not need to occur in a 10-day window)

#### **Test Specifications**

Reference Material	Sodium benzoate
Duration	Typically 28 days, but up to 60 days
Temperature	22C +/- 2C
рН	7.4 +/- 0.2
Inoculum	Activated sludge from wastewater treatment plant
Required Info	Organic Carbon Content
Measurement Parameter	CO2 evolution

