

Inherent Biodegradability Test - COD Removal

OECD 302B

Environment: Aerobic, Freshwater

Measurement Parameter: COD (Chemical Oxygen Demand)



Test Description

OECD 302B is an inherent biodegradability test.

OECD 302B is one method from the OECD 302 test method series. This is recommended for items that did not pass the ready biodegradability threshold in an OECD 301 test.

This tests lasts for 28 days, but prolonged exposure is allowed.

Test Recommendations

Solubility	Must be water soluble
Adsorption	Cannot be adsorbing
Volatility	Cannot be non-volatile
Inhibitory	No microorganism inhibition

Equivalent & Similar Tests

ISO 9888

Test Application

This test is common for highly-soluble samples that did not pass an OECD 301 test.

Biodegradation above 20% may be evidence of inherent, primary biodegradability; whereas, >70% may be evidence of inherent, ultimate biodegradability.

Test Specifications

Reference Material	Ethylene glycol
Duration	Typically 28 days, but can be prolonged
Temperature	22C +/- 2C
pH	6.5 - 8.0
Inoculum	Activated sludge from wastewater treatment plant
Required Info	COD required
Measurement Parameter	COD removal