

# **Evaluation of Wildland Fire Chemicals**

## **Standard Test Procedures**

## 1.4 Biodegradability

<u>Summary:</u> This testing is used to evaluate and compare the biodegradability of different wildland fire foams and water enhancers. Biodegradability is evaluated across a 28-day evaluation window using OECD 301B and OCSPP 835.33110(m) standard procedures. The results determine how readily biodegradable each product submission is by measuring carbon dioxide evolution.

The Forest Service sends a sample of each formulation to an approved testing lab. Results are sent to the Forest Service. The WFCS Project Manager compiles the results and prepares a letter to the submitter showing the performance of the submitted product. A copy of the lab results are sent to the submitter.

### **Method:**

- 1. All testing will be performed in accordance with protocols of the U.S. Environmental Protection Agency (EPA), Office of Prevention, Pesticides, and Toxic Substances (OPPTS).
- 2. Laboratories performing the testing will comply with the EPA established Good Laboratory Practices.

### **References:**

U.S. Environmental Protection Agency, Office of Chemical Safety and Pollution Prevention. Ready Biodegradability; 835.3110(m), Carbon Dioxide Evolution Test.

Organization for Economic Cooperation and Development. Ready Biodegradability; 301B, CO<sub>2</sub> Evolution (Modified Sturm Test).

- U.S. Environmental Protection Agency, Federal Insecticide, Fungicide, and Rodenticide Act. Good Laboratory Practices; 40 CFR 160
- U.S. Environmental Protection Agency, Toxic Substances Control Act. Good Laboratory Practices, 40 CFR 792