# Analyses of environmental samples

NIBIO
NORWEGIAN INSTITUTE OF BIOECONOMY RESEARCH

**Division of Biotechnology and Plant Health**
**Department of Pesticides and Natural Products Chemistry**

NORWEGIAN ACCREDITATION
TEST 035

NIBIO, Dept. Pesticides and Natural Products Chemistry offers analysis of pesticides in water, soil/sediment, and fertilizer. Furthermore, we offer various single residue analyses for organic compounds.

The laboratory was accredited in 1997 and has a flexible accreditation scope. Most of the methods are accredited. Quality assurance and expanding the scope of accredited methods is a continuous priority.

Photo: Erling Fløistad, NIBIO

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## Water analyses

| Method/parameter | Method | Accredited | Limit of quantification |
|---|---|---|---|
| GC-MS method for acidic herbicides (9 compounds) | M15 | Yes | 0.01 – 0.1 µg/L |
| Glyphosate/AMPA; LC-MS/MS | M59 | No | 0.05 µg/L |
| Linear alcohol ethoxylates (C10, C12 and C14); LC-MS/MS | M67 | Yes | 1 µg/L |
| Metribuzin + 3 metabolites; LC-MS/MS | M76 | No | 0.01 – 0.02 µg/L |
| Low-dose herbicides (6 herbicides and 4 metabolites); LC-MS/MS | M72 | No | 0.0001-0.010 µg/L |
| GC-MS/MS Multi-method for pesticides (32 compounds) | M154 | No | 0.01 – 0.05 µg/L |
| LC-MS/MS Multi-method for pesticides (107 compounds) | M155 | No | 0.01 – 0.05 µg/L |

Contact the laboratory if you want to determine pesticides not specified in these methods.
Please visit www.nibio.no/en for sampling guidelines and information on completing the analysis request forms.

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Photo: Kariane Bogsti, NIBIO

## Analyses of soil and sediments

| Method/parameter | Method | Accredited | Limit of quantification |
|---|---|---|---|
| LC-MS/MS Multi-method (273 compounds) | M86 | No | 0.01 – 0.05 mg/kg |
| LC-MS/MS Multi-method for acidic herbicides (23 compounds) | M90 | No | 0.01 – 0.02 mg/kg |
| GC-MS/MS Multi-method (107 compounds) | M93 | No | 0.01 – 0.05 mg/kg |
| Linear alcohol ethoxylates (C10, C12 and C14); LC-MS/MS | M77 | No | 0.2 mg/kg |
| Aminopyralid og clopyralid in soil, compost and fertilizer; LC-HRMS | M125 | No | 2 - 7 µg/kg |

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