Canada Organic Regime (COR)
Standards for Lab Analyses

This information serves as a reference for lab analyses when completing an application for COR crop products. Lab analysis reports must be labeled in a way that is consistent with the product name. Any lab report must declare the methods and units and must be less than one year old.

Crop Fertilizers and Soil Amendments (CF) and Crop Management Tools and Production Aids (CT)

Products containing ash, humates, humic acid, fulvic acid, compost, anaerobic digestate, struvite or microbial fertilizer:

Information Requirement	Review Standard
Independent, verifiable lab analysis for levels of the **trace metals** arsenic, cadmium, chromium, lead and mercury in the ash, humates, humic acid, fulvic acid, compost, anaerobic digestate, struvite or microbial fertilizer ingredient. • Present results in parts per million (mg/kg or ppm)	Shall not exceed the limits (Category C1) for acceptable levels specified in *Guidelines for the Beneficial Use of Fertilising Residuals* or acceptable levels for unrestricted compost (Category A) as specified in *Guidelines for Compost Quality*: • Arsenic: 13 mg/kg dry weight • Cadmium: 3 mg/kg dry weight • Chromium: 210 mg/kg dry weight • Lead: 150 mg/kg dry weight • Mercury: 0.8 mg/kg dry weight

Products containing alkali extracted humic acid:

Information Requirement	Review Standard
Independent, verifiable lab analysis for **humic acid content**, unless humic acid claim is on the label.	Alkali extracted humic acid products should have at least 1.5 times as much humic acid as KOH.

Products containing phosphate rock:

Information Requirement	Review Standard
Independent, verifiable lab analysis of **cadmium** in the phosphate rock ingredient.	Shall not exceed 90 mg/kg P_2O_5.

Products containing compost, anaerobic digestate or struvite:

Information Requirement	Review Standard
Independent, verifiable lab analysis for **foreign matter**.	Shall not exceed the maximum acceptable levels for unrestricted compost (Category A) as specified in *Guidelines for Compost Quality*: • No sharp foreign matter of dimension greater than 3 mm per 500 ml • No more than one (1) piece of foreign matter greater than 25 mm in any dimension per 500 ml

P.O. Box 11558, Eugene, OR 97440-3758, USA • OMRI.org • info@omri.org • P: 541.343.7600 • F: 541.343.8971

COR Standards for Lab Analyses
(continued)

Products containing compost, vermicompost or anaerobic digestate:

Information Requirement	Review Standard
Independent, verifiable lab analysis for levels of **persistent contaminants**. • Present results in parts per million (mg/kg or ppm) Documentation that feedstocks are not at risk of containing persistent contaminants may be acceptable in lieu of lab analyses. Feedstocks identified by OMRI as low-risk may be exempt from this requirement.	Thresholds for pesticides known to be persistent are listed below: • Clopyralid: <0.1 ppm • Picloram: <0.1 ppm • Aminopyralid: <0.1 ppm • Fluroxypyr: <0.1 ppm • Triclopyr : <0.1 ppm • Bifenthrin (pyrethroid): <0.2 ppm

Products containing compost, vermicompost, anaerobic digestate, struvite, microbes or products of microbial processes, manure, or animal by-products, including fish and frass:

Information Requirement	Review Standard
Independent, verifiable lab analysis that documents **fecal coliform** level of the ingredient. Results for fecal coliform must be reported as cfu/g or MPN/g (or per ml for liquid products).	Fecal coliform results must not exceed 1,000 MPN/g fecal coliform calculated on a dry weight basis. Products that do not meet these pathogen indicator levels will be identified with a caution statement or restriction.
Independent, verifiable lab analysis that documents **Salmonella** level of the ingredient. Results for Salmonella must be reported as MPN/4g or cfu/4g (or per 4ml for liquid products), or positive/negative if by DNA or immunological methods.	Salmonella results must not exceed 3 MPN/4g calculated on a dry weight basis, or equivalent negative result if by DNA method. Products that do not meet these pathogen levels will be identified with a caution statement or restriction.

Products containing acid stabilized liquid fish:

Information Requirement	Review Standard
Independent, verifiable lab analysis of the product's **pH level** on an "as received" basis. If the product is a multi-ingredient fish product, pH test should be of the acid stabilized fish prior to blending with other ingredients.	If pH is less than 3.5, demonstrate that the minimum amount of acid needed to stabilize the product is used.

Products containing aquatic plant extracts:

Information Requirement	Review Standard
Independent, verifiable lab analysis of the aquatic plant extract to document the following: • Total Nitrogen (N), including ammoniacal nitrogen and nitrate-nitrogen (NO_3^-) • Total Phosphate (P_2O_5) • Total Potash (K_2O)	Formulations shall not contain more than: • Total Nitrogen: 1.5% dry weight • Ammoniacal Nitrogen: No more than 20% of Total Nitrogen • Nitrate-Nitrogen: No more than 20% of Total Nitrogen • Total Phosphate: 0.5% dry weight • Total Potash: 20% dry weight

P.O. Box 11558, Eugene, OR 97440-3758, USA • OMRI.org • info@omri.org • P: 541.343.7600 • F: 541.343.8971

COR Standards for Lab Analyses

(continued)

Products containing brewer's grains, distiller's grains or vinasse:

Information Requirement	Review Standard
Independent, verifiable lab analysis of the brewer's grains, distiller's grains or vinasse ingredient to document the following: • Total Nitrogen (N), including ammoniacal nitrogen and nitrate-nitrogen (NO_3^-)	Formulations shall not contain more than: • Total Nitrogen: 7% dry weight • Ammoniacal Nitrogen: No more than 15% of Total Nitrogen • Nitrate-Nitrogen: No more than 10% of Total Nitrogen

Products containing hydrolyzed plant or animal protein:

Information Requirement	Review Standard
Independent, verifiable lab analysis of the **hydrolyzed protein** ingredient to document the following: • Total Nitrogen (N) • Ammoniacal nitrogen, nitrate and nitrite nitrogen If the ingredient is **plant protein**, please also submit independent, verifiable lab analysis to document the following: • Total amino acids • Hydroxyproline (as a percentage of total amino acids)	Formulations shall contain: • Total Nitrogen: ≤17% dry weight for animal protein, ≤15% dry weight for plant protein • Ammoniacal nitrogen, nitrate and nitrite nitrogen: ≤10% dry weight (as a percentage of total nitrogen, to confirm that the nitrogen is ≥90% organic nitrogen) • Hydroxyproline (as a percentage of total amino acids): ≤0.3%

Products containing struvite from non-organic animal manure or municipal wastewater:

Information Requirement	Review Standard
Independent, verifiable lab analysis of the **struvite** ingredient to document the following: • Total Nitrogen (N) • Total organic carbon (TOC) • Total Phosphate (P_2O_5) • Magnesium content If the ingredient is **struvite from municipal wastewater sources**, please also submit independent, verifiable lab analysis to document the following: • Aluminum* • Iron* • Polycyclic aromatic hydrocarbons (PAH)* as defined in the Toxic Substances List (schedule 1) of the Canadian Environmental Protection Act (1999) *For the Aluminum, Iron and PAH: struvite shall be measured using vacuum drying at 40ºC until a constant weight to avoid the loss of crystal-bound water.	Formulations shall contain: • Total Nitrogen: 4-6% dry weight • Total organic carbon: ≤1.5% dry weight • Total Phosphate: 25-30% dry weight • Magnesium content: 8-11% dry weight • Aluminum: ≤0.1% dry weight • Iron: ≤1% dry weight • Polycyclic Aromatic Hydrocarbons: ≤6 mg/kg

P.O. Box 11558, Eugene, OR 97440-3758, USA • OMRI.org • info@omri.org • P: 541.343.7600 • F: 541.343.8971

COR Standards for Lab Analyses
(continued)

Crop Pest, Weed and Disease Control (CP)

Products containing ash:

Information Requirement	Review Standard
Independent, verifiable lab analysis for levels of the **trace metals** arsenic, cadmium, chromium, lead and mercury in the ash ingredient. • Present results in parts per million (mg/kg or ppm)	Shall not exceed the limits (Category C1) for acceptable levels specified in *Guidelines for the Beneficial Use of Fertilising Residuals*: • Arsenic: 13 mg/kg dry weight • Cadmium: 3 mg/kg dry weight • Chromium: 210 mg/kg dry weight • Lead: 150 mg/kg dry weight • Mercury: 0.8 mg/kg dry weight

Products containing silicic acid:

Information Requirement	Review Standard
Independent, verifiable lab analysis for levels of total phosphate (P_2O_5) and total nitrogen (N) in the silicic acid ingredient. • Present results as a percentage, dry basis	Formulations shall not contain more than: • Total Phosphate: 0.1% dry weight • Total Nitrogen: 0.1% dry weight

Processing Sanitizers and Cleaners (PS)

Products containing detergent or surfactant:

Information Requirement	Review Standard
Independent, verifiable lab analysis demonstrating that the product is **readily, ultimately or inherently biodegradable** as per the Organization for Economic Cooperation and Development (OECD) definitions.	Lab results must confirm that the product is readily, ultimately or inherently biodegradable as per the OECD definitions. For more information, see https://www.oecd.org/chemicalsafety/testing/oecdguidelinesforthetestingofchemicals.html.

P.O. Box 11558, Eugene, OR 97440-3758, USA • OMRI.org • info@omri.org • P: 541.343.7600 • F: 541.343.8971