



Brookside Laboratories, Inc  
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## Brookside Laboratories Manure/Compost Methods

Moisture/Dry Matter	105-110 degrees Celsius for 16 hours Method 2.0 from “Recommended Methods of Manure Analysis” Method 2.2
Total Nitrogen	Combustion by Elementar Vario Max CN Method 3.3 from “Recommended Methods of Manure Analysis” and TMECC method 4.02 (adapted from AOAC 990.03)
Total Carbon	Combustion by Elementar Vario Max CN Method 4.01 from the “Test Methods for the Examination of Composting and Compost” (TMECC)
Ammonium-N	KCL Extraction determined on FIA Lab flow injection autoanalyzer. Method 4.3 from “Recommended Methods of Manure Analysis” (Adapted from USEPA 350.1)
Nitrate-N	KCL Extraction determined on FIA Lab flow injection autoanalyzer. (Adapted from USEPA 353.2)
Mineral Digestion	Nitric acid digestion in CEM Mars Microwave system. Method 5.3 from “Recommended Methods of Manure Analysis” and TMECC 4.12 (Adapted from



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EPA 3051) use for determination of  
P,K,Ca,Mg,Na,B,Co,Cu,Zn,Mo,Mn,Fe,S,Al

- Mineral Determination      The digested samples are analyzed on Thermal 6500 Dou ICP. Method 6.3 from “Recommended Methods of Manure Analysis” and TMECC 4.14
- pH                                Liquid samples are done as-is. Solid samples are analyzed one part sample to 2 parts water. Method 7 from “Recommended Methods of Manure Analysis”
- Conductivity (EC)        Liquid samples are done as-is. Solid samples are analyzed one part sample to 2 parts water. Method 8 from “Recommended Methods of Manure Analysis”
- Water Extractable Phosphorus    100:1 solution:solids ratio, sample is shaken for one hour at 150 rpm. Sample is then filtered and analyzed on ICP (Reference Wolf, Ann, Peter Kleinman, Andrew Sharpley et.al. Soil Sci.Soc.Am.J 66:2009-2015
- Organic Matter/Ash        Samples muffled in an ashing oven at 550 degrees Celsius for 2 hours. Method 5.07 from the TMECC (EPA method 160.4)



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Maturity

Solvita Maturity Test (Method 5.08E from  
“Test Methods for the Examination of  
Composting and Compost”)

Inert Materials

Method 3.08 from “Test Methods for the  
Examination of Composting and Compost”