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We use this protocol and it's working

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XRF Soil Sample Preparation

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ABSTRACT

This protocol outlines a procedure for the preparation of both wet and dry soil samples for X-ray Fluorescence (XRF) inorganic chemical analysis. The accurate analysis of soil samples is essential for understanding elemental composition and its implications for various environmental studies. Proper preparation ensures reliable and reproducible results.

For wet soil samples, the protocol encompasses drying to remove excess moisture, preventing potential interference with subsequent XRF analysis.

For wet and dry soil samples, the protocol outlines grinding to ensure homogeneity and fine particle size. Proper grinding enhances the accuracy of XRF analysis by promoting even distribution and facilitating the release of elemental components.

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86315

1 Weigh ~500 mg of soil

30s

Step 1 includes a Step case.
Dry Soil
Wet Soil

step case

Dry Soil

Dry soil is loose and crumbly to the touch and doesn't hold its shape when squeezed.

2 Grind with a mortar and pestle until the soil turns to powder (1-2 mins)