Determination Of Sulfur in Canola Seed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)

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Materials and Methods

ICP-OES Analysis

- Sample Preparation
  - Freeze the sample to avoid the loss of sulfur
  - Weigh 1 g sample and transfer it into an 80 mL PTFE beaker
  - Add 10 mL of trace metal grade nitric acid (18 MΩ cm, Carlo Erba) and 10 mL de-ionized water

Conclusions

- An analytical method for the determination of sulfur in canola seed was successfully established with linearity range of 0.54–2.47 % DB and recovery of 99.8–102 % DB for both commercial and CRM canola meals.

References