

### **2.4.3 Atomic Emission Spectroscopy (AES) Analysis**

A number of reference solutions containing established amounts of important minerals, including potassium, magnesium, calcium, iron, and zinc, were used to calibrate the Atomic Emission Spectrometer.

The AES device was filled with the diluted and digested sample solutions.

The AES measured each mineral element present in the banana samples at a particular wavelength.

#### **Data Collection**

The AES supplied numerical information regarding the mineral content of the powdered banana, expressing the findings in milligrams per kilogramme (mg/kg).

For every sample, the concentrations of potassium, magnesium, calcium, iron, and zinc were noted.