1. XRF (X-ray Fluorescence Spectrometer)

Instrument Details



Make: Shimadzu Model: EDX-7200

Specification: Energy Dispersive-X-ray fluorescence spectrometer with 12 sample turret

Working Principle

The samples taken in sample cup with x-ray transparent bottom film are irradiated with x-rays corresponding to specific element and the fluorescence emitted from minerals in the sample is measured by the instrument as counts per second. The instrument is calibrated for sample matrix differences using standard wet chemistry values to cover expected range in samples. This instrument is calibrated for grain samples of Pearl millet and Sorghum (Iron and Zinc), flour samples of Pearl millet and Sorghum (Iron and Zinc), and grain samples of finger millet (Iron, Zinc and Calcium).

Clean grain or flour samples of Pearl millet, Sorghum and Finger millet

↓

Load samples into the sample slots of the turret

Keep 3-5 g of representative sample in sample cup-12 samples

Select the calibration as per the sample type

Run the samples and collect the data

Compile the data from the raw data file

Applications

1. Non-destructive high throughput analysis of Iron, Zinc, and Calcium in Pearl millet, Sorghum and Finger millet samples

User instructions

1. Clean grain samples without glumes or dust

2. Representative sample of 3-5 g to be submitted

Contact: Dr. Venkateswarlu Ronda

Phone: 040-24599319

E-mail: venkat@millets.res.in

Parameter	Industry	University	National Labs	
Iron and Zinc (Pearl millet and	Rs 300	Rs 200	Rs 250	Per sample
Sorghum)				·
Iron, Zinc and Calcium (Finger millet)	Rs 350	Rs 250	Rs 300	Per sample
GST at the rate of 18 % extra				

Kindly include this note in your requesting letter exactly as it is:

"Content of this report is meant for our information only and we will not use the content of this report for advertisement, evidence, litigation or quote as certificate to third party"