

**MYCOTOXIN ANALYZER –FLUOROMETER -1No.  
Doc. No: ST/12/ Mycotoxin Analyzer/2016-17/42**

**Application:**

To determine mycotoxins in food samples.

**Specifications:**

**The Mycotoxin analyser will consist of the following components:**

1. Series 4X Fluorometer
2. Graduated Cylinder – 50 ml, 250 ml
3. Digital scale with AC Adapter – 220 V
4. Commercial blender with stainless steel container
5. Glass blender jar – 500ml
6. Bottle dispenser for Methanol – 500ml (0-3ml range)
7. Bottle dispenser for developer – 50ml (0-3ml range)
8. Wash bottle – 500ml
9. Cuvette rack
10. Fluted filter paper – 24cm
11. Microfiber filters 1.5µm-11cm
12. Kim wipes tissues
13. Disposable cuvettes, plastic pippets – 1ml, plastic beakers
14. Glass Syringe – 10ml
15. Plastic funnels – 65mm
16. Waste collection beaker
17. Power cord – 220V
18. Printer paper

**Accessories:**

1. Aflta P Columns
2. Aflatest Developer
3. Waring blender with jar
4. Mycotoxin calibration standard
5. 2 position pump stand

**The supplier should quote any other accessories necessary to make a complete system**

**Specifications for Series 4X Fluorometer**

**Features:**

- Internal calibration
- Auto calibration
- Should be computer interface with USB connector

**Specifications:**

1. Light source: Xenon pulsed flash light
2. Lamp life: > 10,000,000 flashes
3. Detector: Silicon photodiode
4. Wavelength: 200 - 750 nm
5. Stability: Drift <1%
6. Range selector: Auto; 1000,100,10,1,0.1 ppb scale
7. Precision:  $\pm 0.5\%$
8. Accuracy: 1% of reading
9. Sample tube: 12 x 75mm glass tube
10. Sample volume: 1ml minimum
11. Operating temperature: 5-40°C
12. Operating humidity: 10-90% non condensing
13. Power supply: 230V, 50/60Hz

**14. Data handling:**

- Data Input: Tactile membrane keypad with alphanumeric & function keys
- Display: 2 line X 20 characters
- Printer: onboard 24 character printer
- Computer interface: RS-232, USB connector
- Clock: Date & time format

**The supply should include immune affinity columns various toxins along with internal calibration standards, sample preparation kits along with sample extraction tools and filter papers should complete the system.**

**The product should have AOSE/FTA/USDA/GIPSA approval certification to be enclosed.**