Scientific Visit Report Template for 334 MBIO – Central Laboratory

First: Overview of the Devices Observed

After learning about the devices, write the following basic information about each one.

1. **Liquid Chromatography–Tandem Mass Spectrometry (LC–MS/MS)**
   - The device principle.
   - Key components.
   - Sample type and preparation.
   - Scientific/medical applications.

2. **Atomic Absorption Spectroscopy (AAS)**
   - The device principle.
   - Key components.
   - Sample type and preparation.
   - Elements that can/can't be analysed.
   - Scientific/medical applications.

Second: Suggested Questions About the Devices

Below is a list of questions you can use for the technician in charge of the device, which may help you better understand how it works.

1. **Liquid Chromatography–Tandem Mass Spectrometry (LC–MS/MS)**

- How accurate is this device in detecting substances?
- Does the device require calibration before each analysis?
- How long does the analysis process take?
- What substances or compounds cannot be detected by this device?
- What type of maintenance does the device require on a regular basis?
- What software is used to analyse the data generated by the device?
- How is the reliability and accuracy of the results ensured?

2. Atomic Absorption Spectroscopy (AAS)

- How is the sample prepared before being introduced into the device?
- What are the most analysed elements using AAS?
- Can more than one element be analysed in the same sample?
- How accurate is the device in measuring element concentrations?
- Does the type of flame used affect the analysis results?
- Are there detection limits that the device cannot go below?
- How are the samples disposed of after analysis?

Good Luck ☺