



SOP: LFA 00073  
SOP For Analysis on UV - Visible  
Spectrophotometer

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## **1 Objective**

To be able to define the process of analysis for UV-VIS Spectrophotometer

## **2 Scope**

The procedure is applicable to all analysis for the UV-VIS Spectrophotometer

## **3 Responsibility**

By Quality Control Officer/Executive

By Quality Control Dy. Manager

## **4 Accountability**

QA/QC Assistant General Manager

## 5 Procedure

- 5.1. Check that the surrounding area is clean.
- 5.2. Switch on the main power supply.
- 5.3. Switch on the instruments.
- 5.4. Stabilize the equipment for 15 minutes.
- 5.5. Move the knob to achieve the desired wavelength.
- 5.6. Maintain the sensitivity switch at the highest position.
- 5.7. Place the mode selector at the % T position.
- 5.8. Set the filter wheel at the desired wavelength.
- 5.9. Adjust the 0% transmittance using the set zero control.
- 5.10. Wash and rinse the sample and reference cuvette with the blank solution about two to three times.
- 5.11. Using the percentage knob adjust 100% T.
- 5.12. Remove the cuvette and drain the blank solution. Rinse with sample 2-3 times and then fill it with sample.
- 5.13. Use a tissue paper to clean the reference cuvette's outer surface.
- 5.14. Place the cuvette in the sample holder and cover with the cuvette compartment.
- 5.15. % T sample - The absorbance will be displayed on the data position.
- 5.16. Document the result and record entry in the logbook of the instrument.
- 5.17. Remove the reference and sample cuvette and wash with purified water or methanol.
- 5.18. Calibrate the instrument by running it the same way. Document the entry in the calibration record.
- 5.19. Monthly and after maintenance - Calibration frequency

## **6 Abbreviations**

**SOP** Standard Operating Procedure