



Shree Warana Vibhag Shikshan Mandal's

# TATYASAHEB KORE COLLEGE OF PHARMACY




## COMMON FACILITY CENTER

T.K.C.P., Warananagar, Tal. Panhala, Dist. Kolhapur (M.S.) - 416113

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Instrument	Detail
<p data-bbox="220 564 695 636"><b>FTIR (Fourier transform infrared spectroscopy analysis)</b></p> 	<p data-bbox="810 564 1455 743">Fourier transform infrared spectroscopy (FTIR) is a technique which is used to obtain an infrared spectrum of absorption, emission, photoconductivity or Raman scattering of a solid, liquid or gas</p> <ol data-bbox="810 748 1455 1003" style="list-style-type: none"><li>1) Specification: An FTIR spectrometer simultaneously collects spectral data in a wide spectral range</li><li>2) Sample: Solid as well as Liquid samples can be analyzed</li><li>3) Quantity: 100 mg</li><li>4) Time required (Tentative): 1 week</li></ol>
<p data-bbox="231 1012 686 1084"><b>HPLC (High performance liquid chromatography)</b></p> 	<p data-bbox="810 1012 1449 1191">High-performance liquid chromatography (HPLC) is a technique in analytic chemistry used to separate the components in a mixture, to identify each component, and to quantify each component.</p> <ol data-bbox="810 1196 1455 1442" style="list-style-type: none"><li>1) Specification: For analysis of potency, related substances etc</li><li>2) Sample: Solid as well as Liquid samples can be analyzed.</li><li>3) Quantity: Based on dilution factor</li><li>4) Time required (Tentative): Based on number of samples.</li></ol> <p data-bbox="810 1447 1455 1554">Note: For analysis on HPLC equipment kindly provide details like method, column, number of samples, Standard availability.</p>
<p data-bbox="204 1630 711 1666"><b>UV (Ultraviolet visible spectroscopy)</b></p> 	<p data-bbox="810 1563 1410 1711">Ultraviolet visible spectroscopy (UV) refers to absorption spectroscopy or reflectance spectroscopy in the ultraviolet-visible spectral region.</p> <ol data-bbox="810 1715 1455 1935" style="list-style-type: none"><li>1) Specification: Measurement of Absorption and Emission</li><li>2) Sample: Solid as well as Liquid samples can be analysed.</li><li>3) Quantity: As per customer requirement</li><li>4) Time required (Tentative): 2 week</li></ol>



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### Brookfield rheometer



The R/S-CPS+ Rheometer is used to measure Newtonian and non-Newtonian fluids, records flow curves and determines the viscosity functions in steady shear flows.

- 1) Specification: measurement of the torque, shear deformation of the measured substance by angular deflection of the measuring element.
- 2) Sample: Viscous
- 3) Quantity: As per customer requirement
- 4) Time required (Tentative): 2 Week

### Spry dryer



Spray drying is a method of producing a dry powder from a liquid or slurry by rapidly drying with a hot gas.

- 1) Specification: A spray dryer takes a liquid stream and separates the solute or suspension as a solid and the solvent into a vapor.
- 2) Sample: Liquid samples can be analysed.
- 3) Quantity: As per customer requirement
- 4) Time required (Tentative): 2 week

### High pressure homogenizer (HPH)



High Pressure Homogenisation is a process of increasing the consistency of a product by means of dispersions. The product is displaced under the generation of high pressure and is forced through homogenising valve gap

- 1) Specification: Cavitations turbulence and sheer force break the product into particles of size less than 1  $\mu$ .
- 2) Sample: Liquid samples can be analysed.
- 3) Quantity: As per customer requirement
- 4) Time required (Tentative): 2 week

### Semi-autoanalyzer



This is a compact, simple, reliable semi-automated biochemistry analyzer capable to perform tests on whole blood, serum, plasma, cerebrospinal fluid and urine as sample.

- 1) Specification: The instrument is used for estimation of biochemical parameters
- 2) Sample: Blood, Urine samples
- 3) Quantity: As per customer requirement
- 4) Time required (Tentative): 2 week