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INSTRUMENT STANDARD OPERATING PROCEDURE MANUAL

College of Medicine



SAFETY AND LABORATORY COOMMITTEE, C.O.M, K.F.U.

Prepared by

Document Number	Name	Signature	Date
CM/PHA-035	Lolwa Al helal Nourah Alshebli		
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Write the revision number	Department:		

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SOP	First Draft on SOP for the operation of High Performance Liquid Chromatography (HPLC)	8-12- 2020	Lolwa Al helal Nourah Alshebli

1. OBJECTIVE

- ☐ The document describes the operation of High Performance Liquid Chromatography (HPLC)

2. SCOPE

It is a modern separator device intended to separate and identify liquids using the chromatography principle to separate organic liquids and is used in many researches such as the analysis of chemical and pharmaceutical compounds.

3. RESPONSIBILITIES

- ☐ It is the responsibility of designated personnel in the lab to train staff and students on this procedure and to ensure adherence to this procedure under supervision.
- ☐ It is the responsibility of designated personnel (staff or Student) to follow the instructions of this procedure under supervision.

4. REFERENCES

First Draft on SOP for the operation of High Performance Liquid Chromatography (HPLC) water USA manual

5. DEFINITIONS

A component of the basic machine (waters 2695 separations Module) and four detectors SQ Detector2-Waters 2465 electrochemical detector-Waters 2487Dual Absorbance Detector-Waters 2475 Multi fluorescence Detector

6. SAFETY PRECAUTION

High pressure

The presence of toxic chemicals

The presence of radioactive solutions

7. PROCEDURE FOR OPERATING High Performance Liquid Chromatography (HPLC)

7.1. Turning on the instrument:

- ☐ Press icon empower pro
- ☐ User: system

Password: system

- ☐ Select browse project
- ☐ Select detectors
- ☐ Complete information sample
- ☐ Press injection sample
- ☐ Calculate of area of peak

7.2. Software Operation.

Empower pro 1.0

7.3. Steps of the Procedure

Prepare the sample according to the manual

Adjust the software according to the sample and the required settings from the manual

7.4. Turning off the Instrument

- ☐ Remove sample
- ☐ Close software
- ☐ Turn off hplc

7.5. Warning

High pressure

The presence of toxic chemicals

The presence of radioactive solutions.



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