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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
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Document History

Document Section	Details of Amendments	Date	Modified by (Initials)
SOP	microplate reader xMark Bio-rad	18/4/2021	

1. OBJECTIVE

- ☐ The document describes the operation of microplate reader

2. SCOPE

A microplate reader is a laboratory instrument that is used to measure chemical, biological or physical reactions, properties and analyses within the well of a microplate. A microplate consists of small wells in which separated reactions take place. These reactions convert the presence of an analytic or the progression of biochemical processes into optical signals. The microplate reader detects these signals and thus quantifies the parameter of interest.

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

- ☐ https://www.bio-rad.com/webroot/web/pdf/lsr/literature/10013301x.pdf

5. DEFINITIONS

Microplate reader xMark Bio-rad

6. SAFETY PRECAUTIONS

- ☐ No.

7. PROCEDURE FOR OPERATING microwave systems Digestion CEM mars6

7.1. Turning on the instrument:

- ☐ Insert plug in electric
- ☐ Communication USB in computer

- ☐ Log in software

7.2. Software Operation.

7.3. microplate manger software

7.4. Steps of the Procedure

- ☐ Insert plug in electric
- ☐ Open microplate manger software
- ☐ Loading plate select control calibration unsample
- ☐ Selecting parameters wavelength, incubator, time etc.

7.5. Turning off the Instrument

- ☐ Remove plate
- ☐ Close software
- ☐ Off reader

7.6. Warning

No .