



## 1.0 Intended Use

The Clinical Rotator (Model 2500 by Eberbach Corporation) is used in the department of Immunology (Special Chemistry) for the RPR (Rapid Plasma Reagin) and VDRL (of Spinal Fluid) assays. These procedures require a constant speed of rotation for a specific period of time to optimize the desired reactions. Therefore it is essential that the rotator in used can perform as required by the test procedures.

## 2.0 Description of the Instrument

The Clinical Rotator is consists of a On-Off switch, a rotating platform (on which the reaction cards are placed), a rotation motor, housing case for the motor, a timing dial (for setting rotation time), a speed dial (for setting rotation speed), and a digital r.p.m. display.

## 3.0 Operational Procedure

### 3.1 To Set Rotating Time

The Clinical Rotator at this facility in mainly used for the RPR and CSF VDRL assays. Both assays require a rotation period of eight minutes.

3.1.1 Turn the On-Off switch to "On" position, then turn the Timing dial to 8 minutes and start stopwatch (previously calibrated).

3.1.2 When rotation stops, stop the stopwatch. If the stopwatch reads 8 minutes  $\pm$  15 seconds, mark the timing dial setting at this position for future use.

3.1.3 If the stopwatch and the timing dial do not agree within 15 seconds, repeat the procedure until agreement is achieved.

### 3.2 To Set Rotation Speed

3.2.1 Turn the rotator on.

3.2.2 After about 10 seconds (for the speed to stabilize), turn the speed dial clockwise slowly until the digital display reads 100 (the speed for RPR).



3.2.3 Let the rotator continue to rotate for a minimum of 10 seconds to make sure the r.p.m. display remains constant.

3.2.4 Mark the Speed dial setting at this position for future RPR testing use.

3.2.5 Repeat steps 3.2.2 to 3.2.4 with digital r.p.m. display reading at 180 (for CSF VDRL).

#### 4.0 Maintenance

##### 4.1 Daily

Check and record the rotation speed on the RPR and/ or CSF VDRL worksheets.

##### 4.2 Annually

Electrical checks done ML Biomedical Engineering.

#### 5.0 Backup Procedure

5.1 If the Clinical Rotator 2500 is out of service, call ML Biomedical Engineering at 1-619-262-4899.

5.2 Store specimen according to assay procedure until instrument is back in service. If results are urgent, send sample to Quest Diagnostics for testing.

#### 6.0 Reference

New procedure by Margaret Kwan, October 2001.



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EFFECTIVE DATE  
Dec 20, 2017

SUPERSEDES  
10/11/2010

MEDICAL DIRECTOR  
James F. Keefe, M.D.

DEPARTMENT:  
Clinical Lab

POLICY NUMBER

SUBJECT  
BD Macro-Vue™ Card Test Rotator

Procedure Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Procedure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_