


## STANDARD OPERATING PROCEDURE OF BROOKFIELD VISCOMETER

 <b>BLDEA'S Shri Sanganabasava Mahaswamiji College of Pharmacy &amp; Research Centre Vijayapur 586103</b>	<b>DEPT: PHARMACEUTICS</b>	<b>SOP NO:</b>
	<b>AREA: PHARMACEUTICS LABORATORY</b>	<b>Company Name: RV Brookfield viscometer Model no: RVDVE Procured on:2012-2013</b>
	<b>SUBJECT: SOP FOR BROOKFIELD VISCOMETER</b>	<b>PAGE NO: 1-2</b>
		<b>EFFECTIVE DATE: 25/02/2022 REVIEW PERIOD: 25/02/2023</b>

### **Purpose:**

To provide a procedure for the operating of Brookfield viscometer

### **Scope:**

Applicable to operation of Brookfield viscometer

### **References:**

Instrument Manual

### **Safety Issues and Precautions:**

- Wore Head cap, Mask, Hand gloves and other safety requirements during the performance of stated activity
- Please make the entry of Usage with require details in the Instrument log book
- Handle the Instrument properly with care
- If this instrument is used in a manner not specified by the manufacturer, the protection provided by the instrument may be impaired.
- This instrument is not intended for use in a potentially hazardous environment.
- In case of emergency, turn off the instrument and then disconnect the electrical cord from the wall outlet
- The user should ensure that the substances placed under test do not release poisonous, toxic or flammable gases at the temperatures to which they are subjected to during the testing

## Procedure:

- 1) Turn on the viscometer and allow standing, must be auto zero, after the few seconds the screen appears which indicates 2 digits.
- 2) Now press the key, the screen displays to remove spindle, after removing the spindle and pressing the key the instrument begins, it is auto zeroed.
- 3) After approximately 15 see, the screen displays the instruction to replace spindle
- 4) Attach the spindle to viscometer by screwing then on the lower shaft using left hand thread.
- 5) Press the spindle key and up and down arrow keys. When the desired code is displayed release the arrow key.
- 6) To select spindle, first press either up and down key which cause the area to show current speed, press the set speed key for adjusting the speed.
- 7) Insert center of this spindle in the test material until the fluid level is at the immersion groove on the spindle shaft. Tilt the spindle slightly while immersing to avoid air entrapment.
- 8) To measure high viscosity choose a small spindle and to slow speed if the chosen spindle/speed result in torque above 1 00% and then reduce the value.
- 9) Allow time for the individual reading to stabilize, record the value.
- 10) Press the motor on/off/escape key to turn off motor.
- 11) The time mode allows the user to record the reading for fixed period of time or until a set torque value is attained.
- 12) Then enter/auto turnkey allows determining maximum calculated viscosity possible with current spindle/speed.
- 13) Pressing the up and down arrow keys will allow the viscometer data to be examine, pressing and other key( except enter/press key) will bring back normal display.
- 14) Turn off the mains after use.

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