


## STANDARD OPERATING PROCEDURE OF BROOKFIELD VISCOMETER

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	<b>AREA:</b> <b>PHARMACEUTICS LABORATORY</b>	<b>PAGE NO: 1-3</b>
	<b>SUBJECT:</b> <b>SOP FOR BROOKFIELD VISCOMETER</b>	<b>EFFECTIVE DATE:</b> <b>25-2-2022</b>
		<b>REVIEW PERIOD:</b> <b>25-2-2023</b>

### **Purpose:**

To provide a procedure for the operating of Brookfield Viscometer apparatus

### **Scope:**

Applicable to operation of Brookfield Viscometer apparatus

### **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
- After using the apparatus please clean the instrument and accessories and keep it clean

### **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 sec, 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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