

Document N	Number:	SASoM/EQUIP/090.v2	
Title:	Use of the Eppendorf ThermoMixer F1.5/FP		
Version:	v2		
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Effective from:	09/07/2019	
Valid to:	08/07/2024	

SOP History		
Number	Date	Reason for Change
v1	09/07/2014	Original
	09/07/2019	Five Year Review

1.0 Purpose –

The purpose of this SOP is to outline the principles of the routine use of the Eppendorf ThermoMixer F1.5/FP in Laboratory 248 at the St Andrews School of Medicine (SASoM).

2.0 Scope -

This SOP applies to routine use and maintenance of the Eppendorf ThermoMixer F1.5/FP within the SASoM.

3.0 Responsibilities -

It is the responsibility of all users of the Eppendorf ThermoMixer F1.5/FP within the SASoM to comply with this SOP.

4.0 Procedure -

- The ThermoMixer F1.5 is designed to allow temperature controlled mixing of liquid samples in 1.5mL tubes to ensure rapid and complete mixing of even the smallest samples.
- The instrument can be set at any temperature between 4°C above the ambient temperature and +100°C. There are also quick-set buttons for temperature settings of 37°C, 42°C, 56°C and 95°C.
- The mixing frequency can be set between 300rpm and 1500rpm.



• This instrument is NOT fitted with the ThermoTop and therefore some functions may not be available.

Main Illustration:







Operation:

- 1. Switch on the instrument using the switch at the back of the machine.
- Press the 'menu / enter' button to access the 'key lock' (on / off) and volume (off, 1, 2, 3) functions. The status of the key lock and volume settings is shown in the top right hand corner of the display panel.
- 3. If heating to 37°C, 42°C, 56°C you can select one of the pre-set temperature buttons at the top of the display (37°C, 42°C, 56°C and 95°C). If you wish to mix samples at room temperature, disable the heating block by selecting 'temp off'.
- 4. To manually select a desired temperature, adjust the temperature display using the 'temp' ▲ / ▼ arrows. Holding the arrow buttons down will make the display change faster. The device will apply the new temperature as soon as the buttons are released. The display panel will then show the set temperature / actual temperature.
- 5. Manually select the desired mixing frequency using the 'speed' ▲ / ▼ arrows. Holding the arrow buttons down will make the change faster. The display panel will then show the actual speed (rpm) once the start button is pressed.
- 6. Press the start / stop button to activate mixing.
- 7. Terminate the run by pressing start / stop and turning off the power switch.



8. Clean up all spillages if required.

5.0 Personal protection -

Howie coat must be worn at all times.

6.0 Training –

All users have to be trained before using the Instrument by a designated person.

7.0 Related documents -

- 7.1 Instrument Manual.
- 7.2 Risk assessments RA/GEN/008 (Hot plates and stirrers)

8.0 Approval and sign off –

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