

Customer Information

VACUETTE® MultiMixer User's Manual

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VACUETTE® MultiMixers

1. INTRODUCTION

1.1 General description

The **VACUETTE® MultiMixer** is a simple and reliable instrument for mixing of blood or other biological liquids. Different types of tube can be mixed in a choice of rack adapters.

The microprocessor of the **VACUETTE® MultiMixer** controls different programs and speeds of mixing to ensure accuracy and reproducibility of results. To ensure proper mixing, the **VACUETTE® MultiMixer** mixes for five minutes. At the end of five minutes, the operator is alerted by an acoustic signal and a flashing display. Samples are now ready for analysis.

The mixer and accessories should be unpacked and installed following the instructions supplied. If these instructions are not observed, the manufacturer or supplier will not accept responsibility for any damages or incorrect results that occur as a consequence.

1.2 Installation

The **VACUETTE® MultiMixer** is **NOT** to be placed near centrifuges, oscillating agitators or other vibrating instruments which might cause movement of the bench. The workbench must be flat and level. Direct light on the instrument and sudden changes in temperature should be avoided.

1.3 Rack Assembly

Racks can be removed and/or inserted by pressing the button as shown in the picture.

Connect the power supply outlet to the mixer and insert the power supply plug into the electrical socket on the rear of the mixer.

Once connected, the **VACUETTE® MultiMixer** automatically turns on.

Each time the **VACUETTE® MultiMixer** turns on, it carries out an electronic and mechanic initialization and performs an instrument self-test to check for proper operation.



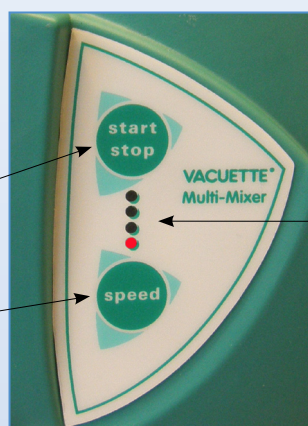
2. FUNCTIONS

2.1 The Instrument Control Panel

The **VACUETTE® MultiMixer** is controlled by two buttons:

START / STOP button





SPEED Button



The four LEDs indicate the level of rotation speed

2.2 Selecting Rotation Functions

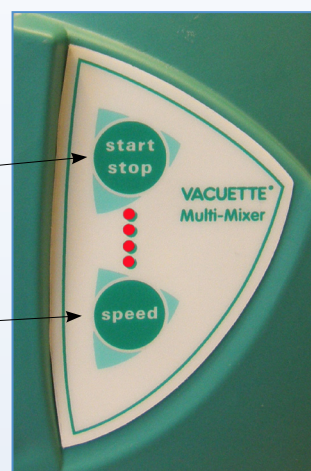
The **VACUETTE® MultiMixer** has 4 different programs:

F1		Continuous rotation
F2		Continuous rotation of the rack with STOPS in upper and lower vertical position.
F3		Rotation with STOPS under the angles of 150° and 300°.
F4		Loop type of rotation under the angle of $\pm 300^\circ$

To enter the program mode and select the desired rotation program, press the SPEED button for 2 seconds. Once in the program mode, the LED will flash. Press the START/STOP button to change programs, then press the SPEED button to exit from “program mode”.

Select Program

Enter / Exit Programming mode



Attention: It is only possible to change the program when the rack is in the starting position and not mixing.

2.3 Starting Mixing

To start mixing, press the START button. The **VACUETTE® MultiMixer** will start mixing using the program currently selected. To stop mixing, press the STOP button; the rack will go to the home position.

After five minutes of mixing, the **VACUETTE® MultiMixer** beeps and the indicators start to blink. To stop mixing, press **START/STOP** button. If the mixer has not been used for 10 minutes, it will switch to a SLEEP mode to save energy. All LED indicators will turn off. To activate the device again, simply press the **START/STOP** button.

To change the rotation speed, press the SPEED button. The **VACUETTE® MultiMixer** will increase its revolutions per minute from level 1 up to level 4.

3. MAINTENANCE

The **VACUETTE® MultiMixer** should be cleaned when visibly necessary or after around 40 hours of use. Before cleaning, you should disconnect the mixer from the power supply.

To clean, wipe the mixer with a damp cloth and then dry. Do not use any acids or other solvents to clean the device.

4. PRODUCT OVERVIEW

Item No.	Description
836577	VACUETTE® MultiMixer for VACUETTE® Tubes
836578	Rack for VACUETTE® 20-Pos. MultiMixer for 9mm VACUETTE® Tubes
836579	Rack for VACUETTE® 20-Pos. MultiMixer for 13mm VACUETTE® Tubes

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