

Institute: AAC

Work place: AAC Labs

Activity: Laboratory work

## EQUIPMENT

### Beckmann Coulter Allegra 25R Zentrifuge

#### DANGERS FOR HUMANS AND ENVIRONMENT



- Dangers can occur due to imbalance of the rotor. As a result, the centrifuge can set in motion and directly endanger people.
- Furthermore, the unbalance can damage vessels and leak the contents.
- This can lead to damage to the centrifuge and / or hazards to the laboratory personnel through vessel parts and the leaked substance.

#### PROTECTIVE MEASURES AND RULES OF CONDUCT



##### Starting on the centrifuge:

The switch is located in the top left corner of the backside.



##### Settings of the centrifuge and explanation of the buttons on the control panel:

RPM: After pressing the button **RPM** you can use the arrow keys to adjust the rotating speed.

TIME: Using the Button **TIME** the running time can be adjusted.

TEMP: **TEMP** adjusts the temperature, changes via the arrow keys.



##### Centrifuging at temperatures below 20 ° C:

Switch on the device, wait 1 - 2 min, set the desired temperature and wait until the temperature is reached, place the tempered sample tubes in and close.

If an error message occurs, switch off the centrifuge and switch it on again after a few seconds. Wait a short time and then slowly lower the temperature.

**Only illuminated buttons can be used.**

### Use of the centrifuge:

Use the Button **OPEN DOOR** to unlock and open the flap of the centrifuge.

Open the screw jars and place the centrifuge tubes in two opposite brackets.

### **Attention! Avoid imbalance of the centrifuge.**

The sample vessel is placed in the opposite position to a counterweight.

As a counterweight you can use a water filled centrifuge tube.

Please weigh!

### **Always close filled centrifuge tubes tightly!**

### **Fully close all four rotor caps / screw jars again completely.**

**Attention! Screw straight, tilted lids can not be screwed correctly.**



Close the flap of the centrifuge.

The Button **START** starts the entire run.

The use of chemicals must be in accordance with relevant safety regulations.

## RESPONSE TO MALFUNCTIONS



- Shut down device immediately, faults must be reported to: Maria Madani, if not present O. Schmitz, M. Sulkowski, F.Uteschil, S. Meckelmann..

## BEHAVIOR IN CASE OF ACCIDENT / FIRST AID



- Keep calm.
- Call first responders.
- Emergency call: 0112
- Report accident.

## MAINTENANCE / DISPOSAL

- Maintenance only by authorized, competent persons.
- Switch off the device and disconnect it from the mains.
- Regular inspection of wearing parts.