

**EXPERT
CLEANER**



ROTOLAVIT
Automatic Cell Washing System
for Serological Testing

Before every blood transfusion, specialists in transfusion centres verify whether the donor and receiver are compatible. In order to execute this cross-matching, the erythrocytes must be absolutely free of plasma residue. This is why it is recommended to call in ROTOLAVIT to join the expert team.

Its washing cycles are carried out automatically and with the highest level of accuracy. At a low speed, it fills the 12 or 24 tubes equally (controlled via flow-through) with a preprogrammed quantity of saline solution. Following centrifugation, it decants the supernatant and resuspends the sediment. As soon as the last washing cycle is completed, the anti-human globulin (Coombs) serum is added manually, before the final centrifugation for agglutination takes place.



AREAS OF APPLICATION

- Cross-matching
- Antibody search and differentiation
- Determination of rare blood group characteristics (blood-typing)

TECHNOLOGY

- Microprocessor control
- Frequency drive
- 4 programmable memories
- Max. RCF 1,438 (3,500 min⁻¹)

USER-FRIENDLINESS

- Effortless cleaning:
simply run a few washing cycles with cleansing agent and then with distilled water
- Easy rotor changing
- A visual and acoustic signal warns when the saline solution container is empty
- One-handed lid closing

SAFETY

- Lid locking and holding
- Lid dropping protection
- Emergency lid lock release
- Metal housing
- Imbalance switch-off
- Motor cut-off at standstill

ROTORS

rotor, 12-place

for 10 x 75 mm
or 12 x 75 mm
standard tubes

Cat. No. 1017

rotor, 24-place

for 10 x 75 mm
or 12 x 75 mm
standard tubes

Cat. No. 1018

OPERATION AND CONTROL

The washing process is carried out automatically. The washing cycles can be programmed. Up to 9 washing cycles can be sequenced.

A washing cycle includes the following steps:

- 1. Filling the saline solution at low speed
- 2. Centrifuging at (usually) 3,500 min⁻¹
- 3. Decanting the supernatant at low speed
- 4. Resuspending the sediment
(between cycles only)

DIGITAL DISPLAY AND CONTROL PANEL

DISPLAY

PROG	Entry of the program number, 4 programmable memories are available
CYC	Entry of the number of washing cycles (max. 9)
ml	Entry of the saline solution quantity per tube (max. 5 ml)
RPM	Entry of the rotational speed
t/min:s	Entry of the washing cycle duration (max. 9 min:59 sec)

An LED lights up	• Should an imbalance occur • As long as the rotor is turning • When the lid can be opened, once the program has been completed
------------------	---



KEYPAD

ARROW KEYS	Leads the user through the menu	◀
	Increases the corresponding value	▲
	Decreases the corresponding value	▼
SPIN	Starts centrifugation for agglutination	
START WASH	Starts the washing process	
STOP	Stops centrifugation manually	
SALINE	Recalls the programmed quantity of saline solution	
CHECK	Checks the quantity of saline solution per washing cycle	



TECHNOLOGY

	ROTOLAVIT	
Cell washing centrifuge, without rotor		
Power supply *	220 – 240 V 1~	110 – 127 V 1~
Frequency	50 – 60 Hz	50 – 60 Hz
Consumption	300 VA	300 VA
Radio interference	EN 55011 ISM class B	FCC class B
Immunity	EN 50082-1	-
Max. capacity	24 standard tubes (10 x 75 mm or 12 x 75 mm)	
Max. RPM (speed)	3,500 min ⁻¹	
Max. RCF	1,438	
Radius (both rotors)	105 mm	
Duration of the individual washing cycles	max. 9 min : 59 sec	
Dimensions (H x W x D) in mm	278 x 333 x 420	
Weight	approx. 23 kg	
Cat. No.	1006	1006-01

* other voltages on request

Andreas Hettich GmbH & Co. KG

Gartenstr. 100
D - 78532 Tuttlingen
Germany
www.hettichlab.com
info@hettichlab.com
service@hettichlab.com

Phone +49 (0)7461 / 705 -0
Fax +49 (0)7461 / 705 -125
National Sales: -200
International Sales: -201
National Service: -202
International Service: -203