

SPIN & WASH



ROTOLAVIT Automatic Cell Washing System for Serological Testing

DJB Labcare - The UK's Leading Centrifuge Specialist
info@djblabcare.co.uk www.djblabcare.co.uk
01908 612598



ROTOLAVIT

In blood banks and transfusion centres, it is routine practice to test the compatibility between donor and recipient prior to every blood transfusion.

The ROTOLAVIT cell washing system is ideal for this vital application.

The washing process is carried out automatically. The appropriate quantity of saline solution is filled equally into 12 or 24 tubes, depending on the rotor, and mixed with a previously pipetted drop of blood. It is then centrifuged and the supernatant is decanted. The washing cycle is repeated several times and the anti-human globulin (Coombs) serum is then added manually, in order to assess possible agglutination following the final centrifugation.



AREAS OF APPLICATION

- Cross-matching
- Antibody search and differentiation

TECHNOLOGY

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

USER-FRIENDLINESS

- Effortless cleaning
- 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

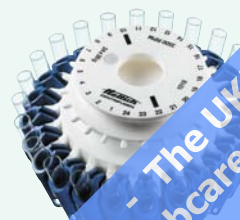
rotor, 12-place



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

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OPERATION AND CONTROL




The washing process is repeated automatically, allowing up to 9 sequenced washing cycles to be programmed freely.

A washing cycle includes the following steps:

1. Filling the saline solution
2. Centrifuging at (usually) 3,500 min⁻¹
3. Decanting the supernatant
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 in increments of 10
t/min:s	Entry of the centrifuging time (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

-  Leads the user through the menu
-  Increases the corresponding value
-  Decreases the corresponding value
-  Starts centrifugation for agglutination
-  Starts the washing process
-  Stops the washing process or centrifugation manually
-  Recalls the programmed quantity of saline solution
-  Checks the quantity of saline solution per washing cycle



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ROTOLAVIT

TECHNOLOGY

	ROTOLAVIT	
Cell washing centrifuge, without rotor		
Power supply *	200 – 240 V 1~	100 – 120 V 1~
Frequency	50 – 60 Hz	50 – 60 Hz
Consumption	180 VA	180 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	
Max. centrifuging time	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

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