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ROTOLAVIT
Automatic Cell Washing System
for Serological Testing

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.



ROTOLAVIT

Cat. No. 1006

AREAS OF APPLICATION

- Cross-matching
- Antibody search and differentiation



TECHNOLOGY

- Microprocessor control
- Frequency drive
- 5 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

rotor, 12-place



↘ 45°

Cat. No. 1017-A

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

Cat. No. for 12 x 75 mm tubes: **0553**.

rotor, 24-place



↘ 45°

Cat. No. 1018-A

The use of 10 x 75 mm tubes requires adapters No. **1019**.



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	Program number. Five programmable memories are available.
CYC	Washing cycles. A maximum of nine washing cycles can be entered.
ml	Volume of saline solution per tube (max. 5 ml).
RPM	Speed indication. Entry in increments of 10.
t/min:s	Centrifugation time (max. 9 min:59 sec).

An LED lights up:  in the event of imbalance,  as long as the rotor is rotating,  when the lid can be opened on completion of the program.




KEYPAD

	Guides the user through the menu options.
	Increases the relevant value.
	Decreases the relevant value.
START WASH	Starts washing, the production of a suspension or the cleaning program.
SPIN	Starts additional centrifugations, e.g. Coombs centrifugation.
STOP	Stops centrifugation or washing manually.
SALINE	<ul style="list-style-type: none"> · Activates the fill volume calibrator. · Charges the system with washing liquid during the cleaning program.
CHECK	Checks the volume of saline solution per washing cycle.



TECHNOLOGY

ROTOLAVIT

Cell Washing System, without rotor		
Power supply ^{*)}	200 – 240 V 1 ~	100 – 120 V 1 ~
Frequency	50 – 60 Hz	
Consumption	180 VA	
Emission	EN 55011 group 1, class B EN 61000-3-2, EN 61000-3-3	FCC class B
Immunity	EN 61000-6-1	-
 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	
Running time of the individual washing cycles	1 sec – 9 min : 59 sec	
Dimensions (HxWxD)	278 x 333 x 420 mm	
Weight	approx. 24 kg	
Cat. No.	1006	1006-01

*) Other voltages on request.



Hettich centrifuges comply with all relevant EU standards in effect and conform to the European level of quality and safety for medical devices. Evidence is provided by national and international test marks such as IEC 61010 or the CE conformity. The ISO 9001:2008, ISO 13485:2003 and 14001:2004 certificates accredited to the company bear witness to the extreme care and responsibility Hettich puts into the manufacturing of centrifuges and their accessories.

Andreas Hettich GmbH & Co. KG

Föhrenstr. 12
D - 78532 Tuttlingen
Germany

www.hettichlab.com
info@hettichlab.com
service@hettichlab.com

Phone +49 (0)7461 / 705 -0
Fax +49 (0)7461 / 705 -122

National Sales: -200
International Sales: -201
National Service: -202
International Service: -203