

LMB_TS_INSTR_004_REC_004	Test Protocol Bagmatic NOVO	
Revision status: 12 / 10.19		

1. General info

1.1	Serial number			
1.2	Device Type	KL500 <input type="checkbox"/> BagMixer JP <input type="checkbox"/> Bagmatic Novo <input type="checkbox"/>	KL500 <input type="checkbox"/> BagMixer JP <input type="checkbox"/> Bagmatic Novo <input type="checkbox"/>	KL500 <input type="checkbox"/> BagMixer JP <input type="checkbox"/> BagmaticNovo <input type="checkbox"/>
1.3	Date of control			
1.4	Customer name/Order			
1.5	SW version			
1.6	HW version			
1.7	Testing done by			

2. Visual inspection

2.1	Connectors and cables check			
2.2	Rotational direction CCW			
2.3	Uniform motion of bag tray			
2.4	Clamp and balance visual check			
2.5	Bag Tray			
2.6	Check for unwanted objects in the housing			
2.7	Overall look, screws			
2.8	Check specification ("order for testing"/ "P:\Soft\PPD\Device configuration")			

3 Electrical check

3.1	3D mechanism check <ul style="list-style-type: none"> 10 rotations Rotation with 1 kg Motor noise const. Bump vibrations on housing 			
3.2	Motor speed	Adapter [12-15 rpm]		
		Battery [12-15 rpm]		
3.3	Input voltage	Adapter (19V)		
		Battery (>14.4V)		
3.4	Illumination ring	Green		
		Red		
3.5	Bootloader test			
3.6	Check battery charging			
3.7	Battery test (SW)	Capacity read		
		Holding voltage		

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4. Calibrations and measuring accuracy&linearity check

4.1	Balance calibration (500g)						
4.2	Check calibration	0g					
	Tolerance: $\pm 2g$	500g					
4.3	Linearity check	250g					
		750g					
	Tolerance: $\pm 3g$	1000g					
4.4	AD value check	0g [300<AD<1200]					
		1200g [AD<4095]					
		Max AD [4095]					
4.5	Clamp position calibration	Open	Close	Open	Close	Open	Close
4.6	Clamp calibration check: • Clamp positions Open/Close • See if liquid (water) is passing while clamp is closed	Open	Close	Open	Close	Open	Close
4.7	Tube detection test from service menu						
4.8	Micro-switch test (Moving tube left and right)						

5. Functionality tests

5.1	Profile settings check. Donation simulation on 250g				
5.2	Tube detection during donation				
5.3	Start weight detection (20-200g)				
5.4	Time setting				
5.5	Pause donation				
5.6	Measured value for 250g. Tolerance $\pm 5g$				
5.7	Data transfer check on all available options	Wireless		Wireless	
		USB		USB	
5.8	Transferred data confirmation				
5.9	Profiles pre-set confirmation				
5.10	Barcode scanning				
5.11	Auto-zero function				

6. Options-Functionality tests

6.1	Barcode holder (insert and eject properly)				
6.2	Tube holder (insert and eject properly)				
6.3	Transportation case stability				
6.4	Barcode reader check				
6.5	Battery test	Capacity read			
		Holding voltage			
6.6	Battery charging				
6.7	Battery charger				
6.8	Language		English <input type="checkbox"/> French <input type="checkbox"/> Other:	English <input type="checkbox"/> French <input type="checkbox"/> Other:	English <input type="checkbox"/> French <input type="checkbox"/> Other:

7. Safety check

7.1	Input power measurement [W]			
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8. Final check

8.1	All nonconformities solved			
8.2	Ready for packing			
8.3	Date			
8.4	Signature			

9. Used measurement equipment

9.1	Telaris 0751			
9.2	Digitalmultimeter VC920			
9.3	GLC-9000			
9.4	Calibrated 500g weight			
9.5	Amperemeter PCE-PA6000			
9.6	Other			

10. Reviewed by

10.1	Initials			
10.2	Date			



Additional tests/Notes

Serial number_____

No	Nonconformity	Date and signature	Correction	Correction done by / Date
1				
2				
3				
4				
5				
6				
7				
8				

No	Check point	Description	Values
1.1	Serial number	Serial number of the device	Number
1.2	Device type	Type of device that is being tested	✓
1.3	Date of control	Date of final inspection	Date
1.4	Customer name/Order	Customer name/Order	Name/Number
1.5	SW version	Hardware version	Number
1.6	HW version	Software version	Number
1.7	Testing done by	Initials of technician that performs testing	Initials
2.1	Connectors and cables check	Visual inspection of cables and connectors	✓
2.2	Rotational direction CCW	Check rotation- should be counter clockwise	✓
2.3	Uniform motion of bag tray	Check if bag tray is rotating uniformly without stopping	✓
2.4	Clamp and balance visual check	Check clamp and balance for some visual damages	✓
2.5	Bag Tray	Check if there are no mechanical damages (scratches, material deformations etc.)	✓
2.6	Check for unwanted object in the housing	Shake device and check if everything is fixed well (no sound of loose parts etc.)	✓
2.7	Overall look, screws	Check if there are some visual damages on device and check if screws are secured well (from bag tray holder on the top to those on the very bottom)	✓
2.8	Check specification ("order for testing"/ "P:\Soft\PPD\Device configuration")	Check device configuration on noted location	✓
3.1	3D mechanism check	Mechanism must achieve at least 10 clean rotations and few with 1kg load. Check if motor noise is constant and if there is no bump vibrations on housing.	✓
3.2	Motor speed	Check motor speed on adapter and battery	✓
3.3	Input voltage	Check adapter 19V and battery >14.4V	✓
3.4	Illumination ring	Check if ring is blinking green and red	✓
3.5	Check battery charging	Check on indicator on display	✓
3.6	Bootloader test	When turning On the device press hold F1 and F3 and wait for illumination ring test	✓
3.6	Battery test (SW)	Put the battery in and check if battery parameters are indicated on display	✓
4.1	Balance calibration (500g)	Calibration of balance with calibrated 500g weight	✓
4.2	Check calibration	Check calibration without weight and with calibrated weight measuring values with $\pm 1g$ tolerance	number
4.3	Linearity check	Check weights for nominal values as in the table	number
4.4	AD value check	Check AD range, to be in defined margins	✓

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4.5	Clamp position calibration	Calibrate clamps upper and down position	✓
4.6	Calibration check • Clamp positions O/C • See if liquid (water) is passing while clamp is closed	Check if Clamp is closing and opening. In closed position, liquid (water) must not pass through the tube.	✓
4.7	Tube detection test from service menu. Moving tube to left and right side	Tube detection test from service menu. Moving tube to left and right side to check if the micro switch is jamming.	✓
4.8	Micro-switch test (Moving tube left and right)	Moving tube left and right	✓
5.1	Profile settings check. Donation simulation on 250g	Simulation of donation	✓
5.2	Tube detection during donation	Check if tube detection is working during donation	✓
5.3	Start weight detection (20-200g)	Check start weight detection	✓
5.4	Time setting	Check time settings	✓
5.5	Pause donation	Check if pause is working	✓
5.6	Measured value for 250g. Tolerance $\pm 5g$	Measure final weight and compare with set weight	✓
5.7	Data transfer check on all available options	Check all data transfers (USB, Wireless) which are integrated	✓
5.8	Transferred data confirmation	Check transferred Erysys data	✓
5.9	Profiles pre-set confirmation	Check if all profiles are correctly set	✓
5.10	Barcode scanning	Plug in barcode scanner and check if it reads barcodes	✓
5.11	Auto-zero function	Check if device has auto-zero function implemented	✓
6.1	Barcode holder (insert and eject properly)	Check if Barcode holder insert and eject itself properly	✓
6.2	Tube holder (insert and eject properly)	Check if Tube holder insert and eject itself properly	✓
6.3	Transportation case stability	Rubber brackets must be screwed properly. Case must rest on the ground without moving, when some force is acting on it	✓
6.4	Barcode reader check	Check functionality of barcode scanner	✓
6.5	Battery test	Capacity test from service menu, and holding voltage test	Number

6.6	Battery charging	Put the battery in device and check if charging process is indicated. Repeat the process 5 times. Check to see if the charging stops after the battery is charged.	✓
6.7	Battery charger	Put the battery in charger and check if charging process is indicated. Repeat the process 5 times.	✓
6.8	Language	Check which language needs to be installed in the device.	✓/Name

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7.1	Input power measurement [W]	Measure maximum consumption of device (during working regime) according to instruction for power measurement	value
8.1	All nonconformities solved	Check if all nonconformities are solved	✓
8.2	Ready for packing	Check if the machine is ready for packing	✓
8.3	Date:	Date when the test are finalized	Date
8.4	Signature:	Signature of responsible technician	Name
9.1	Telaris 0751	Check if this equipment was used in measurement	✓
9.2	Digitalmultimeter VC920	Check if this equipment was used in measurement	✓
9.3	GLC-9000	Check if this equipment was used in measurement	✓
9.4	Calibrated 500g weight	Check if this equipment was used in measurement	✓
9.5	Amperemeter PCE-PA6000	Check if this equipment was used in measurement	✓
9.5	Other	Name of other tools used for testing	Name
10.1	Initials	Signature of person who checked if all field in protocol are filled in	Initials
10.2	Date	Inscribe date of review	Date