

# LMC-56, Laboratory Centrifuge

## DESCRIPTION

LMC-56 is a modern benchtop, low-speed laboratory centrifuge designed for convenient sedimentation, centrifugation and collection of necessary samples. It provides operation with tubes, blood collection systems, gel cards, microtest and ELISA plates. Our centrifuges are designed for safe work (metal protecting housing), easy maintenance and wide application range in medical, biochemical, chemical, industrial and other type of laboratories.

### Features:

- User-friendly centrifugation parameter input and simultaneous display of the set and actual parameter values.
- Safe assay performance: metal protective housing and metal lid, automatic imbalance switch-off, lid lock during the centrifuge operation provide safe operation at all speeds.
- Rotor imbalance automatic diagnostics (emergency stop, imbalance indication).
- Automatic rotor detection with active rotational speed limit.
- Relatively high speed – maximum 6,000 rpm or 3,750 g.
- Wide choice of accessory rotors and adapters.
- A wide selection of rotors – up to 13.
- Improved chamber to reduce sample heating during centrifugation.
- Different modes of acceleration and deceleration, including deceleration mode with switched off forced braking.
- Possibility to set the speed both in revolutions per minute and by relative centrifugal force.



## SPECIFICATIONS

Speed regulation range for centrifuge tubes	100-6000 rpm (3750 × g)
Speed regulation range for microtitre plates	100-2000 rpm (560 × g)
Speed setting resolution	100 rpm
Digital time setting	1 - 90 min (increment 1 min)
Timer sound signal	+
Rotor imbalance diagnostics (automatic stop, "IMBALANCE" warning)	+
Rotor detection	+
Display	LCD, 2 x 16 signs
Chamber diameter	355 mm
Overall dimensions (W×D×H)	560 × 480 × 315 mm
Weight	16.5 kg
Nominal operating voltage	230 V, 50/60 Hz or 120 V, 50/60 Hz
Power consumption (230V / 120 V)	320 W / 330 W

## ACCESSORIES

## CAT. NUMBER

Without rotor	Without rotor
BS-010221-A01	230VAC 50/60Hz Euro plug
BS-010221-A02	230VAC 50/60Hz UK plug
BS-010221-A03	230VAC 50/60Hz AU plug
BS-010221-XK	IQ OQ document
BS-010221-WK	PQ document



**BR-4U**  
BS-010221-AK  
Rotor

Bucket rotor without bucket adapters



**BA-2/50**  
BS-010221-CK  
Adapters

Bucket adapters for 2 tubes of 50 ml (set of 4 pcs.)



**BI-25-8**  
BS-010221-UK  
adapter set

For bucket adapters BA-2/50 optional adapter set (8 pcs) - BI-25-8 for 25 ml conical tubes



**BA-4/15**  
BS-010221-EK  
Adapters

Bucket adapters for 4 tubes of 15 ml (set of 4 pcs.)



**BA-4/10**  
BS-010221-DK  
Adapters

Bucket adapters for 4 tubes of 10 ml (set of 4 pcs.)



**BN-13/75-16**  
BS-010221-OK  
adapter set

For bucket adapters BA-4/10 optional adapter set (16 pcs) - BN-13/75-16 for vacutainers 2-5 ml



**BN-13/100-16**  
BS-010221-PK  
adapter set

For bucket adapters BA-4/10 optional adapter set (16 pcs) - BN-13/100-16 for vacutainers 4-8 ml



**BN-16/100-16**  
BS-010221-QK  
adapter set

For bucket adapters BA-4/10 optional adapter set (16 pcs) - BN-16/100-16 for vacutainers 8-10 ml



**BA-8/5**  
BS-010221-FK  
Adapters

Bucket adapters for 8 tubes of 5 ml (set of 4 pcs.)



**BA-14/2U**  
BS-010221-JK  
Adapters

Bucket adapters for 14 microtest tubes of 2 ml (set of 4 pcs.)



**Ri-6**  
BS-010221-HK  
rotor

Swing-out rotor for conical bottom centrifuge tube. Aluminium buckets.



**Ri-6P**  
BS-010221-IK  
Rotor

Swing-out rotor for conical bottom centrifuge tube. Plastic buckets (POM Kocetal).



**BI-25-6**  
BS-010221-VK  
adapter set

For rotors R-6, R-6P, Ri-6, Ri-6P optional insert set (6 pcs) - BI-25-6 for 25 ml conical tubes



**RMT-24**  
BS-010221-BK  
Rotor

Fixed-angle rotor for 24 - 1.5 or 2 ml microtubes



**Ri-12/10**  
BS-010221-MK  
Rotor

Swing-out rotor for round bottom centrifuge tube.



**BN-13/75**  
BS-010208-PK  
adapter set

For rotors R-12/10, Ri-12/10 optional adapter set (12 pcs) - BN-13/75 for vacutainers 2-5 ml



**BN-13/100**  
BS-010208-QK  
adapter set

For rotors R-12/10, Ri-12/10 optional adapter set (12 pcs) - BN-13/100 for vacutainers 4-8 ml



**BN-16/100**  
BS-010208-RK  
adapter set

For rotors R-12/10, Ri-12/10 optional adapter set (12 pcs) - BN-16/100 for vacutainers 8-10 ml



**Ri-24/10**  
BS-010221-LK  
Rotor

Swing-out rotor for round bottom centrifuge tube.



**BN-13/75-24**  
BS-010221-RK  
adapter set

For rotors R-24/10, Ri-24/10 optional adapter set (24 pcs) - BN-13/75-24 for vacutainers 2-5 ml



**BN-13/100-24**  
BS-010221-SK  
adapter set

For rotors R-24/10, Ri-24/10  
optional adapter set (24 pcs) -  
BN-13/100-24 for vacutainers 4-  
8 ml



**BN-16/100-24**  
BS-010221-TK  
adapter set

For rotors R-24/10, Ri-24/10  
optional adapter set (24 pcs) -  
BN-16/100-24 for vacutainers 8-  
10 ml



**Ri-12/15**  
BS-010221-KK  
Rotor

Swing-out rotor for conical  
bottom centrifuge tube.



**Ri-2**  
BS-010221-GK  
Rotor

Swing-out rotor for standard 96-  
well microtitre plates, skirted  
PCR plates, deepwell plates up  
to 45mm.



**AP-96**  
BS-010219-DK  
adapter

2 adapters for 96-well semi-  
skirted and non-skirted PCR  
plates - made of Ertacetal® C.  
Autoclavable



**AP-384**  
BS-010219-EK  
adapter

2 adapters for 384-well plates -  
made of Ertacetal® C.  
Autoclavable



**Ri-24GC**  
BS-010221-NK  
Rotor

Rotor for 24 Gel Cards for blood  
group serology testing (Forward  
Group, Reverse Group, RhD  
Type and 3 cell antibody  
screen)



**RR-U**  
BS-010208-UK  
rack for rotors

Rack for rotors

# EU Declaration of Conformity

**Unit type** Mini-Centrifuge, Laboratory Centrifuge

**Models** **Microspin-12, LMC-3000, LMC-4200R, LMC-56**

**Serial number** 14 digits styled XXXXXXYYMMZZZZ, where XXXXXX is model code, YY and MM – year and month of production, ZZZZ – unit number.

**Manufacturer** SIA Biosan  
Ratsupites 7 k-2, Riga, LV-1067, Latvia

The objects of the declaration described above is in conformity with the following relevant Union harmonization legislations:

<b>LVD 2014/35/EU</b>	<b>LVS EN 61010-1:2011</b> Safety requirements for electrical equipment for measurement, control, and laboratory use. General requirements. <b>LVS EN 61010-2-020:2016</b> Particular requirements for laboratory centrifuges.
<b>EMC 2014/30/EU</b>	<b>LVS EN 61326-1:2013</b> Electrical equipment for measurement, control and laboratory use. EMC requirements. General requirements.
<b>RoHS3 2015/863/EU</b>	Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
<b>WEEE 2012/19/EU</b>	Directive on waste electrical and electronic equipment.

I declare that the Declaration of Conformity is issued under sole responsibility of the manufacturer and belongs to the above-mentioned objects of the declaration.

Svetlana Bankovska  
Managing Director

  
Signature

06 December 2021  
Date





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Bureau Veritas Certification



EN ISO/IEC 17021-1  
S2-424

Certification

Awarded to

**BIOSAN SIA**

RĀTSUPĪTES IELA 7 K-2, RĪGA, LV-1067, LATVIA

Bureau Veritas Certification certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standard detailed below

STANDARD

**ISO 13485:2016**

SCOPE OF CERTIFICATION

DEVELOPMENT, DESIGN, PRODUCTION, SERVICE AND DISTRIBUTION OF MEDICAL DEVICES: DEVICE FOR MEASURING OPTICAL DENSITY (OD), AUTOMATIC MICROPLATE WASHER. SALES, STORAGE AND DISTRIBUTION OF ACTIVE AND NON ACTIVE NONIMPLANTABLE MEDICAL DEVICES.

Original cycle start date:	26-05-2022				
Expiry date of previous cycle:	NA				
Certification/Recertification audit date:	11-04-2022				
Certification/Recertification cycle start date:	26-05-2022				
Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on:	25-05-2025				
Certificate Number:	LV007756	Version:	1	Revision date:	26-05-2022

Certification body address: Bureau Veritas Latvia SIA, Dunties street 17a, Riga, LV-1005, Latvia

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.

To check this certificate validity please call +371 67323246



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STANDARD

**ISO 9001:2015**

SCOPE OF CERTIFICATION

DEVELOPMENT, PRODUCTION, SALES AND SERVICE OF LABORATORY EQUIPMENT.

Original cycle start date:	25-05-2004				
Expiry date of previous cycle:	25-05-2022				
Certification/Recertification audit date:	17-05-2022				
Certification/Recertification cycle start date:	26-05-2022				
Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on:	25-05-2025				
Certificate Number:	LV007741	Version:	1	Revision date:	19-05-2022

Certification body address: Bureau Veritas Latvia SIA, Dunties street 17a, Riga, LV-1005, Latvia

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.

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