

## Specificație Tehnică Completată

Modelul: MSC-6000; Producător: Biosan; Țara: Letonia.

Specificația tehnică deplină solicitată de către autoritatea contractantă	Specificația tehnică deplină propusă de către autoritatea ofertantă
Microcentrifugă Viteză: 100 – $\geq$ 1000 g Capacitate: 12 – 24 eprubete Volume eprubete: 1,5 – 2 mL Să includă adaptore pentru tuburi 0.2 mL și 0.5 mL Garanție: min. 24 luni	Microcentrifugă Viteză: 1000-6000 rpm RCF: 100 – 2350 g Capacitate: 12 eprubete Volume eprubete: 1,5 – 2 mL Include rotor , R0.5/0.2 pentru tuburi 0.2 mL și 0.5 mL Garanție: 24 luni

# EU Declaration of Conformity

**Unit type** Minicentrifuges-vortexes

**Models** FV-2400, FVL-2400N, MSC-3000, MSC-6000, CVP-2

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

**Manufacturer** SIA BIOSAN  
Latvia, LV-1067, Riga, Ratsupites str. 7/2

**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

07.02.2020.  
\_\_\_\_\_  
Date



BUREAU  
VERITAS

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

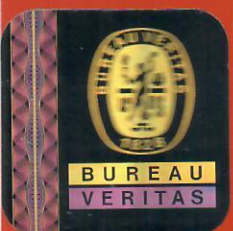
DEVELOPMENT, DESIGN, PRODUCTION, SERVICE AND DISTRIBUTION OF MEDICAL DEVICES: DEVICE FOR MEASURING OPTICAL DENSITY (OD), AUTOMATIC MICROPLATE WASHER, MICROPLATE PHOTOMETER. SALES, STORAGE AND DISTRIBUTION OF ACTIVE AND NON ACTIVE NONIMPLANTABLE MEDICAL DEVICES.

Original Cycle Start Date:	26-05-2022
Expiry date of previous cycle:	NA
Certification / Recertification Audit date:	18-05-2022
Certification/Recertification Cycle Start Date:	26-05-2022
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on:	25-05-2025

Certificate No.: LV007756

Version: 2

Issue date: 03-07-2023



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



BUREAU  
VERITAS

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S2-424

Certification

Awarded to

**BIOSAN SIA**

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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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# MSC-6000, Centrifuge/Vortex Multispin

## DESCRIPTION

Centrifuge/vortex Multi-Spin **MSC-6000** is product of many years evolution of Spin-Mix-Spin technology that is intended for collecting micro volumes of reagents on the microtube's bottom (first centrifugation spin), following mixing (mix) and collecting the reagents again from the walls and cap of the microtube (second spin). We named this repetitive algorithm of operation that is aimed at reducing the mistakes during sample preparation for PCR analysis a "sms-algorithm".

Multi-Spin is a fully automatic device for reproducing sms-algorithm for 12 tubes at one time, thus saving time considerably. A must-have instrument for PCR and DNA analyses laboratory.

Multi Spin is four devices combined in one:

1. Centrifuge — Maximum RCF: up to 2350 × g
2. Vortex (3 mixing modes — soft, medium, hard; regulated time; Vortexing regulation timer 1–20 s)
3. Centrifuge/Vortex;
4. SMS-cycler for realization of the "sms-algorithm".

Table on the right compares FVL-2400N, MSC-3000 and **MSC-6000**

Multi-Spin allows considerable time saving compared to Combi-Spin by automatically performing cycling program of sample mixing and spinning according to the set spin-mix-spin cycle for 12 microtubes simultaneously.

## SPECIFICATIONS

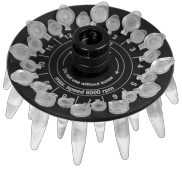
Speed control range	1000–6000 rpm (increment 100 rpm)
RCF max.	2350 x g
Spin timer	1 s - 30 min
Vortexing intensity	Soft, medium, hard
Vortexing time	0–20 s (increment 1 s)
SMS-cycle regulation	1 - 999 cycles
Timer sound signal	+
Display	LCD, 2 x 16 signs
Safety	Lid lock
Overall dimensions (W×D×H)	190x235x125 mm
Weight	2.5 kg
Input current/power consumption	24 V, 24 W (1 A)
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 24 V



## CAT. NUMBER

Including rotors R-1.5, R-0.5/0.2	Including rotors R-1.5, R-0.5/0.2
BS-010211-AAL	230VAC 50/60Hz Euro plug
BS-010211-AAQ	230VAC 50/60Hz UK plug
BS-010211-AA4	230VAC 50/60Hz AU plug
BS-010211-AAU	100VAC 50/60Hz US plug
BS-010211-AAM	120VAC 60Hz US plug
BS-010211-CK	IQ OQ document
BS-010211-DK	PQ document

## ACCESSORIES



**R-0.5/0.2**  
BS-010205-BK  
rotor

Rotor for 12 x 0.5 ml and 12 x 0.2 ml microtest tubes



**R-1.5**  
BS-010205-AK  
rotor

Rotor for 12 x 1.5/2 ml microtest tubes



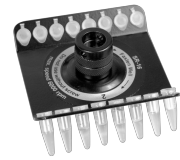
**R-2/0.5**  
BS-010205-CK  
rotor

Rotor for 8 x 2/1.5 ml and 8 x 0.5 ml microtest tubes



**R-2/0.5/0.2**  
BS-010205-DK  
rotor

Rotor for 6x2/1.5 ml + 6x0.5 ml + 6x0.2 ml microtest tubes



**SR-16**  
BS-010202-AK  
rotor

Rotor for 2 x 8-section 0,2 ml microtube strips



**SR-32**  
BS-010205-FK  
rotor

Rotor for 4 x 8-section 0,2 ml microtube strips

\* not compatible with Combi-Spins produced before 2015