

## Specificație Tehnică Completată

Modelul: MSH-300; Producător: Biosan; Țara: Letonia.

Specificația tehnică deplină solicitată de către autoritatea contractantă	Specificația tehnică deplină propusă de către autoritatea ofertantă
Agitator magnetic cu placă fierbinte Interval de temperatură: 30°C – 300 °C Diametrul plăcii de lucru: 160 mm – 200 mm Gama de control al vitezei: 250-1250 RPM Omogenitatea temperaturii pe placă: $\pm 3^{\circ}\text{C}$ Garanție: min. 24 luni	Agitator magnetic cu placă fierbinte Interval de temperatură: 30°C – 330 °C Diametrul plăcii de lucru: 160 mm Gama de control al vitezei: 250-1250 RPM Omogenitatea temperaturii pe placă: $\pm 3^{\circ}\text{C}$ Garanție: min. 24 luni



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

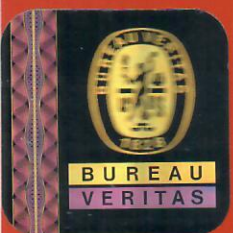
DEVELOPMENT, DESIGN, PRODUCTION, SERVICE AND DISTRIBUTION OF MEDICAL DEVICES: DEVICE FOR MEASURING OPTICAL DENSITY (OD), AUTOMATIC MICROPLATE WASHER, MICROPLATE PHOTOMETER. SALES, STORAGE AND DISTRIBUTION OF ACTIVE AND NON ACTIVE NONIMPLANTABLE MEDICAL DEVICES.

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, Dunes 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

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To check this certificate validity please call +371 67323246



# EU Declaration of Conformity

**Unit type** Magnetic stirrers with heating

**Models** **MSH-300, MSH-300i**

**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  
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 61010-2-010:2015</b> Particular requirements for laboratory equipment for the heating of materials. <b>LVS EN 61010-2-051:2015</b> Particular requirements for laboratory equipment for mixing and stirring.
<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

# MSH-300, Magnetic Stirrer with hot plate

## DESCRIPTION

MSH-300 is magnetic stirrer of the new generation. Enclosures of stirrers are made of metal painted with powder enamel chemically resistant to acids and alkali. The stirrers are equipped with a detachable stand for supporting various sensor elements (temperature, pH and others) inside the stirred liquid.

The stirrers are supplied with a cylinder-shape magnetic stirring bar (6 × 25 mm) for universal use covered with Teflon.

Units are equipped with the overheat protection providing an automatic switch-off of the device when overheating for the set temperature difference occurs.

Magnetic stirrers with heating can be used for laboratory operations such as organic synthesis, extraction, analysis of oil products, pH-measurements, dialysis, soil suspending, preparing buffer solutions, etc.

Additional protection disables the heating, if the temperature of plate exceeds the set temperature for 30°C.

Operation temperature range +4°C to +40°C (from cold rooms to incubators) at maximal relative humidity 80%.

## SPECIFICATIONS

Speed control range	250-1250 RPM
Max. stirring volume (water)	15 litres
Plate temperature regulation range	+30°C...+330°C
Temperature uniformity on the plate	±3°C
Working plate heating time till 330°C	15 min
Maximum continuous operation time	168 h
Diameter of working plate	160 mm
Working surface material	Aluminium alloy
SR-1, attachable stand size	∅ 8 × 320 mm
Length of magnetic stirring element	10–50 mm
Max. stirring liquid viscosity	up to 1170 mPa.s
Fault indication	Outputs sound signal and turns off the heating
Overall dimensions (W×D×H)	190x270x100 mm
Weight	2.9 kg
Power consumption (Stirring)	8.5 W
Power consumption (Heating)	550 W
Nominal operating voltage	230 V; 50/60 Hz or 120 V; 50/60 Hz



## CAT. NUMBER

BS-010302-OAA	230VAC 50/60Hz Euro plug
BS-010302-OAB	230VAC 50/60Hz UK plug
BS-010302-OA3	230VAC 50/60Hz AU plug
BS-010302-OAC	100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-010302-BK	IQ OQ document
BS-010302-CK	PQ document

 ACCESSORIES



**HTP-1**  
BS-010309-FK  
holder

HTP-1, holder for temperature  
probe