

Anexa tehnica, Lot 2

Sistem de incubare a microplăcilor TS-DW, Thermo-Shaker for deep well plates, cu bloc B-08AB, Block for one 96-well, 800 µl

Biosan, Letonia

Parametri solicitati	Parametri oferiti
Domeniul de utilizare Laborator de genetică moleculară, pentru etapa de hibridizare și captură a probelor ADN, protocoale NGS Parametru Specificația Tipul sistemului Amplasat pe masă Acuratețea temperaturii $\pm 0.5\text{ }^{\circ}\text{C}$ Intervalul de setare a temperaturii + 5 - +99 $^{\circ}\text{C}$ Capac cu încălzire Da, pentru evitarea condensării Posibilitate de ajustare a temperaturii Da, manual sau protocoale presetate ce pot fi modificate Consumabile compatibile Microplăci de tip DeepWell cu volum de 0.8 ml, de 96 de godeuri Sursă de alimentare Tensiune de alimentare 220V, 50 Hz Tip fir de alimentare Shuko Training Training pentru utilizator Da, prezentare generală, pregătirea de lucru, operarea dispozitivului, mentenanța zilnică Training pentru ingineri Da, Testarea performanței, mentenanța periodică Documente Manual de utilizare Română Manual de deservire Română sau Engleză Logistică Transportare la locul solicitat Da Instalare și darea în exploatare Da Testare Da Garanție Perioadă Minim 2 ani Efectuarea mentenanței periodice în garanție: De către furnizor, conform manualului de deservire tehnică.	Domeniul de utilizare Laborator de genetică moleculară, pentru etapa de hibridizare și captură a probelor ADN, protocoale NGS Parametru Specificația Tipul sistemului Amplasat pe masă Acuratețea temperaturii $\pm 0.5\text{ }^{\circ}\text{C}$ Intervalul de setare a temperaturii + 5 peste ambient - +100 $^{\circ}\text{C}$ Capac cu încălzire Da, pentru evitarea condensării Posibilitate de ajustare a temperaturii Da, manual sau protocoale presetate ce pot fi modificate Consumabile compatibile Microplăci de tip DeepWell cu volum de 0.8 ml, de 96 de godeuri bloc B-08AB , Block for one 96-well, 800 µl Sursă de alimentare Tensiune de alimentare 220V, 50 Hz Tip fir de alimentare Shuko Training Training pentru utilizator Da, prezentare generală, pregătirea de lucru, operarea dispozitivului, mentenanța zilnică Training pentru ingineri Da, Testarea performanței, mentenanța periodică Documente Manual de utilizare Română Manual de deservire Română sau Engleză Logistică Transportare la locul solicitat Da Instalare și darea în exploatare Da Testare Da Garanție Perioadă 2 ani Efectuarea mentenanței periodice în garanție: De către furnizor, conform manualului de deservire tehnică.

TS-DW, Thermo-Shaker for deep well plates

DESCRIPTION

TS-DW Thermo-Shaker is designed for shaking and incubating deep well plates.

A multisystem principle, used in the design of the Thermo-Shaker, allows operating it as 3 independent devices: Incubator, Plate shaker and Thermo-Shaker.

TS-DW provides excellent temperature uniformity across the plate due to patented two-sided heating of the block and the lid, contour heating of the block and close proximity of heating elements to plate walls.

There is a number of interchangeable blocks to suit different plates such as Eppendorf® 96/1000 µl, Sarstedt® Megablock 96/2200 µl, Porvair® 96/2000 µl, Axygen® 96/2200 µl. Also we can manufacture a customized block on request.

Deep Well Plate Thermo-Shaker provides:

- Soft or intensive sample shaking
- Rotation speed regulation, stabilization and indication
- Even rotation amplitude throughout the Thermo-Shaker platform
- Exceptional temperature uniformity across the plate
- Required operation time setting and indication
- Automatic stopping of the platform movement after expiration of the set time
- Setting and indication of the required temperature on the platform
- A variety of changeable blocks that can accommodate most popular deepwell plates
- Automatic fault diagnostics (temperature sensor, platform heating, lid heating etc.)

Application fields:

- Cytochemistry — for in situ reactions
- Immunochemistry — for immunofermentative reactions
- Biochemistry — for enzyme and protein analysis
- Molecular biology — for nucleic acid extraction

Separate blocks to accommodate different deepwell plates will be released. For example:

Deep Well Plates NUNC® 96/2000 µl

Deep Well Eppendorf® 96/0.5 ml

The block for deepwell plate is mountable, thus a custom plate module can be manufactured on request

Temperature Calibration Function

With the help of the temperature calibration function the user can calibrate the unit approx. ±6% of the selected temperature to compensate differences in the thermal behaviour of plates from different manufacturers.



CAT. NUMBER

Without thermoblock	Without thermoblock
BS-010159-A02	230VAC 50/60Hz Euro plug
BS-010159-A03	230VAC 50/60Hz UK plug
BS-010159-A05	230VAC 50/60Hz AU plug
BS-010159-A04	100VAC 50/60Hz US plug, 120VAC 60Hz US plug
BS-010159-GK	IQ OQ document
BS-010159-HK	PQ document

SPECIFICATIONS

Temperature setting range	+25°C ... +100°C
Temperature control range	5°C above ambient ... +100°C
Temperature setting resolution	0.1°C
Temperature uniformity at +37°C	±0.1°C*
Temperature accuracy at +37°C	±0.5°C*
Time of platform heating from +25°C to +37°C	6 min*
* for B-2E thermoblock	-
Temperature calibration coefficient range	0.936...1.063 (± 0.063)
Speed control range	250–1400 rpm
Digital time setting	1 min–96 hrs (1 min increment)
Timer sound signal	+
Orbit	2 mm
Display	LCD, 16 x 2 signs
Overall dimensions (W×D×H)	240 x 260 x 160 mm
Weight	5.1 kg
Input current/power consumption	12 V, 4.8 A / 58 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V

ACCESSORIES



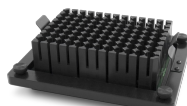
B-PCR
BS-010159-YK
block

Block for one 96-well unskirted, skirted or semi-skirted PCR plate



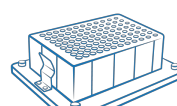
B-2F
BS-010159-VK
block

Block for flat-bottomed and solid surface deep-well plates



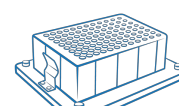
B-2E
BS-010159-AK
block

Block for one deep-well plate Eppendorf® 96/1000 µl - Cat.No. 0030505204, 0030506200, 0030502205



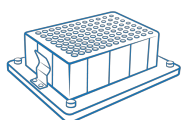
B-05E
BS-010159-QK
block

Block for one deep-well plate Eppendorf® 96/500 µl - Cat.No. 0030501101



B-2A
BS-010159-FK
block

Block for one deep-well plate Axygen® 96/2200 µl - Cat.No. P-2ML-SQ-C



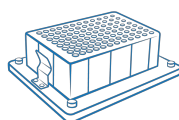
B-06A
BS-010159-KK
block

B-06A block for one deep-well plate Axygen® 96/600 µl - Cat.No. P-DW-500C



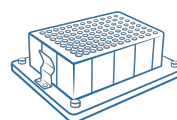
B-2S
BS-010159-CK
block

Block for one deep-well plate Sarstedt® Megablock 96/2200 µl - Cat.No. 82.1972.002



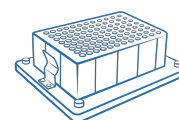
B-08AB
BS-010159-MK
block

Block for one Abgene™ Storage Plate 96/800 µl - Cat.No. AB0765, AB0859



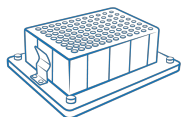
B-12AB
BS-010159-SK
block

Block for one deep-well plate Abgene™ 96/1200 µl - Cat.No. AB0564, AB0787



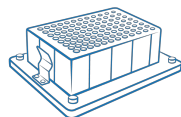
B-2P
BS-010159-EK
block

Block for one deep-well plate Porvair® 96/2000 µl - Cat.No. 219009



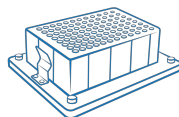
B-1R
BS-010159-UK
block

Block for one deep-well plate
Riplate® 96/1000 µl - Cat.No.
43001-0101



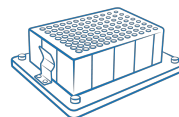
B-2R
BS-010159-TK
block

Block for one deep-well plate
Riplate® 96/2000 µl - Cat.No.
43001-0103



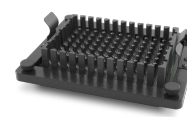
B-05PO
BS-010159-OK
block

Block for one deep-well plate
PlateOne® 96/500 µl - Cat.No.
S1896-5000



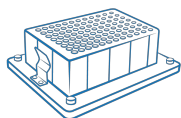
B-2PO
BS-010159-NK
block

Block for one deep-well plate
PlateOne® 96/2000 µl -
Cat.No. S1896-2000



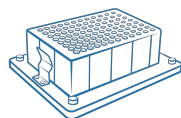
B-2N
BS-010159-DK
block

Block for one deep-well plate
Nunc® 96/2000 µl - Cat.No.
278743, 278752



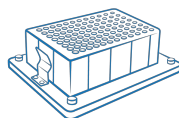
B-2SL
BS-010159-IK
block

Block for one deep-well plate
Starlab® 96/1200 µl - Cat.No.
E2896-0120



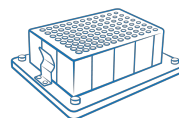
B-2M
BS-010159-RK
block

Block for one deep-well plate
KingFisher™ Deepwell 96 Plate
- Cat.No. 95040450



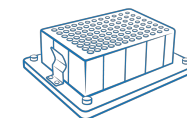
B-2SD
BS-010159-PK
block

Block for one deep-well plate
Slicprep™ 96 - Cat.No. AB0932



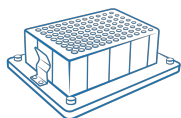
B-2KF
BS-010159-LK
block

Block for one deep-well plate
PowerMag® Glass Bead Plate
96 - Cat.No. 27600-4-KF-BP



B-2BBI
BS-010159-JK
block

Block for one deep-well plate
cluster SSI Bio - Cat.No. 703B00,
713B00



B-2V
BS-010159-BK
block

B-2V block for one deep-well
plate Vector-Best® 96/1000 µl

EU Declaration of Conformity

Unit type Thermo-Shakers

Models TS-100, TS-100C, TS-100C Smart, TS-DW, PST-60HL, PST-60HL-4, PST-100HL

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:

LVD 2014/35/EU	LVS EN 61010-1:2011 Safety requirements for electrical equipment for measurement, control, and laboratory use. General requirements. LVS EN 61010-2-010:2015 Particular requirements for laboratory equipment for the heating of materials. LVS EN 61010-2-051:2015 Particular requirements for laboratory equipment for mixing and stirring.
EMC 2014/30/EU	LVS EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use. EMC requirements. General requirements.
RoHS3 2015/863/EU	Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
WEEE 2012/19/EU	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

Brīvības gatve 323, Rīga, LV-1006, 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 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:	25-05-2025
Certification / Recertification Audit date:	13-05-2025
Certification/Recertification Cycle Start Date:	26-05-2025
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on:	25-05-2028

Certificate No.: LV009252

Version: 1

Issue date: 21-05-2025

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

Bureau Veritas Certification



EN ISO/IEC 17021-1
S2-424

Certification . Awarded to **Biosan SIA**

Rātsupītes iela 7 k-2, Rīga, LV-1067, LATVIA

Brīvības gatve 323, Rīga, LV-1006, 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:	25-05-2025
Certification / Recertification Audit date:	13-05-2025
Certification/Recertification Cycle Start Date:	26-05-2025
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on:	25-05-2028

Certificate No.: LV009253

Version: 1

Issue date: 21-05-2025



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