Medical–Biological
Research & Technologies

TS-100C,
Thermo–Shaker with Cooling for Microtubes and PCR plates

Ø 2 mm
Orbit

Product video is available on the website

Mixing Efficiency Video is available on the website

Thermo–Shaker **TS-100C** provides intensive mixing and temperature control of samples in microtest tubes or PCR plate. This model of Thermo–Shaker differs from TS-100 with a possibility of cooling samples down to +4°C. Features of **TS-100C** meet the highest expectations of users according to many parameters:

1. Fast reaching of specified mixing speed and maintenance of equal amplitude of rotation throughout the Thermo–Shaker block;
2. Stability of maintaining the preset temperature in a wide range throughout the Thermo–Shaker's block surface;
3. LCD display indicates preset and current values of temperature, speed and time of operation;
4. Quiet motor operation, compact size, prolonged service life.

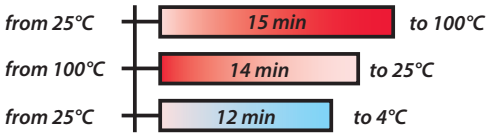
Functions of heating and mixing can be performed both simultaneously and independently

There are five heating and cooling blocks available, including a block with a plastic lid for the PCR-plates. All blocks are mutually interchangeable and can be easily installed on Thermo–Shaker. Pictures and description of the blocks are provided on the page 26.

The instrument is applicable in:

- Genetic analysis — in extraction of DNA, RNA and further sample preparation;
- Biochemical study of enzymatic reactions and processes;
- Extraction of metabolites from cellular material.

Heat up and cool down times for TS-100C



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 tubes from different manufacturers.

TS-100C with block SC-96AC

Specifications:	
Temperature setting range	+4°C... +100°C
Temperature control range	15°C below ambient... +100°C
Temperature setting resolution	0.1°C
Temperature stability	±0.1°C
Temperature accuracy @ +37°C	±0.5°C
Temperature uniformity over the block: @ +4°C @ +37°C @ +100°C	±0.6°C ±0.1°C ±0.3°C
Average heating speed: from +25°C to +100°C	5°C/min
Average cooling speed: from +100°C to +25°C from +25°C to +4°C	5°C/min 1.8°C/min
Ut Temperature calibration coefficient range	**0.936...1.063 (± 0.063)**
Speed control range	250–1,400 rpm
Ut Acceleration time	**3 sec**
Orbit	2 mm
Display	LCD, 16×2 signs
Microprocessor controlled temperature, mixing speed and operation time	
Digital time setting	1 min–96 hrs (1 min increment)
Maximum continuous operation time	max. 96 hours
Overall dimensions (W×D×H)	205×230×130 mm
Weight	3.7 kg
Input current/power consumption	12 V, 4.9 A / 60 W
External power supply	Input AC 100–240 V 50/60 Hz; Output DC 12 V

Catalogue number:	
TS-100C without block	BS-010143-AAI
Catalogue numbers and descriptions of all blocks can be found on page 26	

Biosan SIA., Ratsupites 7, build. 2, Riga, LV-1067, Latvia, Phone: +371 674 261 37, Fax: +371 674 281 01, E-mail: marketing@biosan.lv, http://www.biosan.lv

Interchangeable Blocks for TS-100

Medical–Biological Research & Technologies

Block	Capacity	Tube volume	Catalogue number
1 SC-18	20 and 12 microtubes	0.5 ml and 1.5 ml	BS-010120-AK
2 SC-18/02	20 and 12 microtubes	0.2 ml and 1.5 ml	BS-010120-CK
3 SC-24	24 microtubes	2 ml	BS-010120-EK
4 New! SC-24N	24 microtubes	1.5 ml	BS-010120-GK
5 SC-96A	96-well microplate (0.2 ml) for PCR		BS-010120-FK

1 *SC-18*

2 *SC-18/02*

3 *SC-24*

New!

4 *SC-24N*

5 *SC-96A*

Interchangeable Blocks for TS-100C

Block	Capacity	Tube's volume	Catalogue number
1 SC-18C	20 and 12 microtubes	0.5 ml and 1.5 ml	BS-010143-AK
2 SC-18/02C	20 and 12 microtubes	0.2 ml and 1.5 ml	BS-010143-CK
3 SC-24C	24 microtubes	2 ml	BS-010143-EK
4 New! SC-24NC	24 microtubes	1.5 ml	BS-010143-GK
5 SC-96AC	96-well microplate (0.2 ml) for PCR		BS-010143-FK

1 *SC-18C*

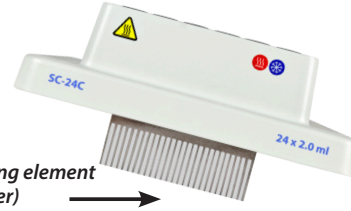
2 *SC-18/02C*

3 *SC-24C*

4 *SC-24NC*

New!

5 *SC-96AC*



Cooling element (Peltier)

Biosan SIA., Ratsupites 7, build. 2, Riga, LV-1067, Latvia, Phone: +371 674 261 37, Fax: +371 674 281 01, E-mail: marketing@biosan.lv, http://www.biosan.lv