

BSP™ 31: Specimen Labelling Solution



Brady has developed a unique set of products for the histology and anatomic pathology market in order to guarantee **pre-process identification for tissue samples** allowing **traceability throughout laboratory processes** as well as long term storage (<20 years).

The BSP™31 Label Attachment System is designed to mechanically fasten an adhesive label to a tissue cassette before the tissue-embedding process. This easy-to-use unit creates rivets on the label which prevent the label from detaching during the embedding process or during long-term storage.

When a cassette is inserted into the front of the unit, a clamp automatically grabs the cassette. In less than a minute, four small heat probes pierce through the label and front plastic of the cassette. Heat applied to the probes melts the cassette plastic and forms rivets on the label. When the unit retracts the probes from the cassette, the cassette is released and the user can remove it and place the biospecimen into the cassette. The BSP31 unit must be used exclusively with **Brady B-482 label material** and the R-6400 thermal transfer printer ribbon.

BSP™31 & Accessories

Article No.	Description
804850	BSP™31 Label Attachment System – EUR
804851	BSP™31 Label Attachment System – USA
804855	BSP™31 Kit Light* EUR
804856	BSP™31 Kit Light* UK
804857	BSP™31 Kit Light* USA
804858	BSP™31 Kit Full** EUR
804859	BSP™31 Kit Full** UK
804860	BSP™31 Kit Full** USA
114631	BSP™31 Cleaning brush kit
804866	BSP™31 Filter kit

***Light:** BSP™31 Label Attachment System + BBP11 printer

****Full:** BSP™31 Label Attachment System + BBP11 printer + CR2500 Barcode Reader + B-482 Tissue Cassette Labels + B-481 Stainerbondz™ Labels + R-6400 thermal transfer ribbons

Tissue Cassette Labels

Article No.	Order Reference	Description
804863	THT-199-482-3	B-482 Tissue Cassette Labels (3" core)
804864	THT-199-482-3-SC	B-482 Tissue Cassette Labels (1" core)
804865	X-127-482	B-482 Tissue Cassette Labels (LabXpert cartridge)



Key Features

- 2D Barcodes – smaller and more information
- Label can be applied pre-process
- Longevity of label – 20 years
- Easy-to-use printing systems
- Automatically fastens label to cassette
- Small footprint

Fits into the lab workflow

Receive tissue sample

Label cassette

Process cassette

Slice / cut tissue block

Scan cassette

Print / apply slide label

Physical Properties

Operating temperature	18-27°C
Operating humidity	30-85% non condensing
Temperature of cassette holder	< 70°C
Dimensions	16.53 cm (H) x 26.26 cm (D) x 16.38 cm (W)
Weight	5.9 Kg
Space surrounding recommendation	Back and side: 30.5 cm Top: 45.70 cm
Noise level	65 dbA (UL 60950-1 specification is 85 dbA)

Regulatory Certifications

UL / CSA / EN / IEC 60950-1 Electrical Equipment for Measurement, Control and Laboratory Use
 EMC Directive 89/336/EEC per EN 61326-1
 EN 55011 / CISPR 11 Radiated and Conducted Emissions
 EN 61000-4-2 Electrostatic Discharge Immunity
 EN 61000-4-3 Radiated Radio Frequency Immunity
 EN 61000-4-4 Electrical Fast Transient Burst Immunity
 EN 61000-4-5 Surge Immunity
 EN 61000-4-6 Radio Frequency Conducted Immunity
 EN 61000-4-8 Magnetic Field Immunity
 EN 61000-4-11 Voltage Dips and Interruptions Immunity
 EN 61000-3-2 Harmonics Emissions
 EN 61000-3-3 Voltage Flicker Immunity
 FCC Part 15.109 Radiated and FCC Part 15.107 Conducted Emissions
 ICES-003 Radiated and Conducted Emissions
 RoHS compliant per European Directive 2002/95/EC
 WEEE (Waste Electrical And Electronic Equipment)

Operations Panel

Power button	Press to start the unit after the main power switch has been turned on.
Power light	Steady green at power on, indicating the unit has power. Red indicates a fault condition (e.g. filter door is open). During autoclean cycle, the light goes off.
Auto Clean light	Normally off. After riveting about 150 cassettes, the light turns steady red, indicating the unit is starting an auto-clean cycle. During the cleaning cycle, no riveting can be performed. Auto Clean is also initiated at the end of Standby mode and when the power button is pressed when the unit is ON.
Filter light	Normally off. When a new filter is needed, turns yellow until the filter is changed and the unit is reset. If the filter is not changed within 800 cycles of initial indication, the Filter light goes off and the Power light turns red. The unit will prevent further riveting until the filter is replaced.
Status light	Steady green when the unit is in the ready state. Flashing yellow when the unit is heating to the required temperature. Flashing green during the riveting process.

Electronics

Input current	2 Amps
Input voltage	230 VAC
Input frequency	50 Hz
Fuses	Europe 230 V unit: 3A, 250V, Time Lag

Cleaning recommendation

Exterior	<ol style="list-style-type: none"> On the front panel, press Power. The autoclean lights turn red and the unit starts an autoclean cycle. Lights go off when autoclean is done. At the back of the unit, turn Main Power Switch to OFF. Unplug the power cord from the unit. <p>!CAUTION! Do not spray fluids directly at or into the system.</p> <ol style="list-style-type: none"> Using a soft cloth, wipe the surface of the unit with any of the following cleaning fluids: Isopropyl alcohol, bleach solution (25% bleach, 75% water), PDI Sani-Cloth Plus Wipes, commercial-grade Lysol, ethanol chem-wipes (70%) <p>!WARNING! Do not introduce any external cleaning solutions, foreign objects or insert fingers into the cassette slot.</p>
Probes	> 2000 cassettes (see user guide)

Filter

Certifications	None
Recommendations for changing	Every 6 months or 5000 cassettes
Waste disposal method	Dispose of used filters in accordance with local, state and federal regulations (potassium permanganate media). The wearing of gloves is recommended during removal.



Cassettes

Recommended # per day	50
Angle	35° and 45°

Brands

Simport	McCormick Scientific	Sakura - Tissue Tek
M486, M493, M499, M506, M507, M508, M480, M492, M498, M505, M485	MC-500, MC-510, MC-600, MC-650, MC-550, MC-560	4187, 4182, 4184