

BlueVertical Mini Slab Gel System



Convenient & easy to operate

The BV 102 is a dual mini tank with the option to operate one or two gels, depending on the requirements. Precast gels and self-cast gels can be run.

BV 102 accommodates commercially available precast gels which have an outer dimension of 8 x 10 or 10 x 10 cm. SDS-PAGE, IEF and native PAGE can be carried out.

Built-in convenient operating features result in improved daily work: the unit is easy to operate, consists of an outer buffer tank and the inner core running unit which also serves as part of the unique casting system. Mounting of gels (pre-cast, self-cast) does not require any tedious clamping but is a matter of seconds. Gels are kept at their position in the inner core running module by the novel wedge lock system. The system is ready-to-go within minutes. Guaranteed no leakage.

The outer buffer tank of BV 102 is made from strong transparent acrylic – protecting against mechanical damage. Watch your gel while running! A safety lid closes the top, giving the unit a very compact and robust design. Little bench space is required. BV 102 is, of course, in accordance with European safety guidelines (CE mark).

- Superb results
- Top resolution
- Easy and safe to handle
- Thermostatting option (cooling)
- Ergonomic, compact design
- Fits most pre-cast cassette gels

Thermostatting

The outer buffer tank works as a heat "sink" ("passive" thermostatting) which is sufficient for SDS PAGE and native PAGE. However, for Isoelectric Focusing, higher voltages are applied generating Joule heat. In this application it is advisable to provide "active" thermo-statting during the electrophoretic run to obtain optimum separation at reproducible conditions.

BV 102 has an integrated cooling device at the base of the buffer tank. It can be connected optionally to an external circulatory refrigerating unit to provide appropriate thermostatting.

Specifications Blue Vertical 102

Upper buffer volume:	200 ml
Lower buffer chamber:	700 ml
Gel volume:	7 ml
max. voltage:	500 V
max. current:	250 mA

Running conditions

SDS gels	Constant voltage: 150 V (current will decrease from 40 mA to 10 mA per gel during run) Constant current: 15-20 mA per gel		70 - 90 min
Native gels	Constant voltage: 130 V (current will decrease 1 to 12 h from 15 mA to 5 mA per gel during run) Constant current: 15-20 mA per gel		1 to 12 h
Isoelectric Focusing	a) < 3 pH units 100 V: 30 min 200 V: 30 min 500 V: 120 min	b) > 3 pH units 100 V: 60 min 200 V: 60 min 500 V: 30 min	a) < 3 pH units total 180 min b) > 3 pH units total 150 min

Product Listing/Ordering Information

Product	Cat. No.
BlueVertical 102 Mini vertical dual slab gel unit (10 x 10 cm), cooling. Incl. 2 combs (1.0 mm, 10 samples), 2 sets of spacers (1.0 mm), 2 sets of glass plates, 1 dummy plate, user manual	BV 102
BlueVertical 102 System Mini vertical dual slab gel unit (10 x 10 cm), cooling. Incl. 2 combs (1.0 mm, 10 samples), 2 sets of spacers (1.0 mm), 2 sets of glass plates, 1 dummy plate, casting adaptor BV 102/CA, user manual	BV 102 Syst.
Casting Adaptor	BV 102/CA
Plain Glass Plate, 4 pcs.	BV 102-9
Notched Glass Plate, 4 pcs.	BV 102-10
Dummy Plate	BV 102-7
Spacer Set, 0.75 mm, 2 pcs.	BV 101-0.75
Spacer Set, 1.0 mm, 2 pcs.	BV 101-1.0
Spacer Set, 1.5 mm, 2 pcs.	BV 101-1.5
Comb (0.75 mm), 15 Samples	BV 101-15-0.75
Comb (1.0 mm), 10 Samples	BV 101-10-1.0
Comb (1.0 mm), 15 Samples	BV 101-15-1.0
Comb (1.5 mm), 15 Samples	BV 101-10-1.5
Comb (1.5 mm), 15 Samples	BV 101-15-1.5
Comb (1.5 mm), 1 Sample, 1 Reference	BV 101-P1-1.5
Comb (1.5 mm), 1 Sample, 2 References	BV 101-P2-1.5
Replacement Gasket	BV 101-3
Rubber Gel Casting Seal, 2 pcs.	BV 102-8

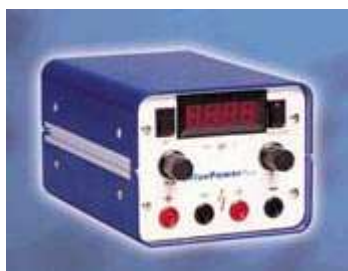
Combs available for BlueVertical 102

Combs and spacers are made from high quality HIPS (high impact polystyrene).
The BV 102 is shipped as standard equipped with 1.0 mm/10 wells combs (2).

Cat.No.	No. of wells	Comb thickness	Well width	Well depth	Sample* volume
BV 101-10-1.0	10	1.0 mm	5.5 mm	15 mm	70 µl
BV 101-15-1.0	15	1.0 mm	3.0 mm	15 mm	40 µl
BV 101-15-1.5	15	1.5 mm	3.0 mm	15 mm	60 µl
BV 101-10-1.5	10	1.5 mm	5.5 mm	15 mm	100 µl
BV 101-10-0.75	10	0.75 mm	5.5 mm	15 mm	50 µl
BV 101-15-0.75	15	0.75 mm	3.0 mm	15 mm	25 µl
BV 101-P1-1.5	1 Ref. 1 Prep.	1.5 mm 1.5 mm	3.0 mm 54 mm	15 mm 15 mm	60 µl 1050 µl
BV 101-P2-1.5	2 Ref. 1 Prep.	1.5 mm 1.5 mm	3.0 mm 48.3 mm	15 mm 15 mm	50 µl 950 µl

* approx. sample volume ($\pm 10\%$) which can be loaded into a well

Which power supply is needed?



BP-Plus



BP-500 PLUS

For standard applications in SDS PAGE and native PAGE, a power supply such as the BluePower PLUS supplying 200 V/300 mA is sufficient. For IEF, higher voltage is required. We recommend the programmable BluePower 500 (500 V/500 mA).