

Системы для электрофореза Enduro

Технические характеристики

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Enduro™ Horizontal Gel Boxes

The Enduro Horizontal Gel Boxes have been designed with safety and ease of use in mind. Constructed of quality materials, they stand up to everyday use and provide a long, trouble-free service life.

The gel boxes are molded from UV transparent acrylic for leakproof performance. Cassettes enclose the electrodes to protect them from breakage and allow for easy cleaning and replacement.

Rubber casting gates fit easily onto the gel trays for tape-free gel casting. Positioning slots on the sides of the trays hold combs in place while pouring gels. The supplied combs are 1.5 mm thick and are adjustable to control well depth. Each gel tray is supplied with a Wellcomb Mat that can be placed underneath to aid in visualizing wells when loading. The domed lid and drip ring prevent condensation from falling onto the gel.

The Enduro line includes a full range of sizes, from a compact mini system to a large system that accommodates as many as 450 samples. Additional gel trays and different sizes of combs are available as well as Enduro molecular weight markers. Bicaster and Tricaster models provide casting trays for multiple sized gels in a single package.



Ordering Information

Cat. No.	Description	Gel (W x L)	Unit (W x D x H)	Buffer Volume (mL)	Max. Sample Capacity	Supplied Combs	Supplied Casting Trays (cm)
E1007-7	7.7	2.75 x 2.75 in. (7 x 7 cm)	3.55 x 8.27 x 3.55 in. (9 x 21 x 9 cm)	225	32	8 tooth (2)	–
E1007-10	7.10	2.75 x 3.94 in. (7 x 10 cm)	3.55 x 8.27 x 3.55 in. (9 x 21 x 9 cm)	225	64	8 tooth (3)	–
E1010-10	10.10	3.94 x 3.94 in. (10 x 10 cm)	4.92 x 8.66 x 3.55 in. (12.5 x 22 x 9 cm)	300	100	10* tooth (2)	–
E1015-10	15.10	5.9 x 3.94 in. (15 x 10 cm)	6.89 x 10.43 x 3.55 in. (17.5 x 26.5 x 9 cm)	500	140	16* tooth (1) 20 tooth (1)	–
E1015-15	15.15	5.9 x 5.9 in. (15 x 15 cm)	6.89 x 10.43 x 3.55 in. (17.5 x 26.5 x 9 cm)	500	210	16* tooth (1) 28* tooth (1) 20 tooth (1)	–
E1020-20	20.20	7.9 x 7.9 in. (20 x 20 cm)	9 x 15.55 x 3.55 in. (23 x 39.5 x 9 cm)	1,200	450	20 tooth* (2) 40 tooth* (2)	–
E1010-9611	96	3.94 x 4.73 in. (10 x 12 cm)	4.92 x 8.66 x 3.55 in. (12.5 x 22 x 9 cm)	300	96 plus	96-well 1 mm	–
E1007-BI	7 BiCaster	2.75 x 3.94 in. (7 x 10 cm)	3.55 x 8.27 x 3.55 in. (9 x 21 x 9 cm)	225	64	8 tooth (3)	7 x 7, 7 x 10
E1010-BI	10 BiCaster	5.9 x 3.94 in. (15 x 10 cm)	6.89 x 10.43 x 3.55 in. (17.5 x 26.5 x 9 cm)	500	140	16* tooth (1) 20 tooth (1)	10 x 7, 10 x 10
E1015-BI	15 BiCaster	5.9 x 5.9 in. (15 x 15 cm)	6.89 x 10.43 x 3.55 in. w(17.5 x 26.5 x 9 cm)	500	210	16* tooth (1) 28* tooth (1)	15 x 7, 15 x 10, 15 x 15
E1020-BI	20 BiCaster	7.9 x 7.9 in. (20 x 20 cm)	9 x 15.55 x 3.55 in. (23 x 39.5 x 9 cm)	1,200	450	20 tooth* (2) 40 tooth* (2)	20 x 10, 20 x 20

Enduro™ Gel XL – A Complete Electrophoresis System

The compact design of Enduro Gel XL results in a much smaller footprint than that of traditional gel boxes and power supplies. The 150V power supply connects directly into the gel box, eliminating tangled leads. Casting gels is quick and easy – place the gel tray in the stand, slide the comb into the slots, and pour. Combs are multi-channel compatible and gel trays are UV-transparent.

The molded gel tank provides leak-proof performance while the vented lid aids in dispersing heat. For safety, a magnetic sensor recognizes the presence or absence of the lid and allows current to flow accordingly. Operating parameters are set digitally, including amperage and voltage with automatic crossover. A run can be paused at any time and the parameters changed. A micro casting set for four 6 x 6 cm gels is available separately.



Specifications

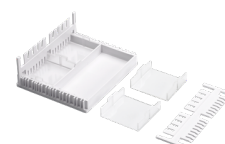
Gel capacity	1 large (12.5 x 12 cm), 2 small (12.5 x 6 cm), 4 micro (6 x 6 cm)
Sample capacity	112 samples (4 combs, 26 samples each)
Buffer capacity	300 mL
Output voltage	10 to 150V, constant peak voltage of 150V
Output amperage	10 to 400 mA
Timer	99 hours 59 min. and continuous
Program memory	Last used V and T
Dimensions (W x D x H)	9.7 x 3.0 x 2.5 in. (24.5 x 17.0 x 6.2 cm)

Ordering Information

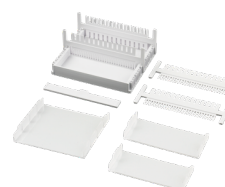
Cat. No.	Description
E0160	Enduro Gel XL, with standard casting set (E0168), gel tank with safety lid and power supply, 120V, US plug
E0160-230V	Enduro Gel XL, with standard casting set (E0168), gel tank with safety lid and power supply, 230V, EU plug
E0160-230V-UK	Enduro Gel XL, with standard casting set (E0168), gel tank with safety lid and power supply, 230V, UK plug

Accessories

Cat. No.	Description	Qty/Pk
E0161	UV Transmittant casting tray, 12.5 x 12 cm	2
E0162	UV Transmittant casting tray, 12.5 x 6 cm	2
E0163	UV Transmittant casting tray, 6 x 6 cm	4
E0164	Reversible tooth combs, 1 mm thick 14/28	2
E0165	Reversible tooth combs, 1 mm thick 5/8	2
E0166	Micro casting set, includes 4 UV Transmittant casting trays (6 x 6 cm), 2 reversible tooth combs (1 mm thick 5/8), and a casting stand with divider	1
E0167	Casting stand with divider	1
E0168	Standard casting set, includes 1 UV Transmittant casting tray (12.5 x 12 cm) 2 UV Transmittant casting trays (12.5 x 6 cm), 4 reversible tooth combs (1 mm thick 14/28), and a casting stand with divider	1



Micro casting set
(Cat. No. E0166)

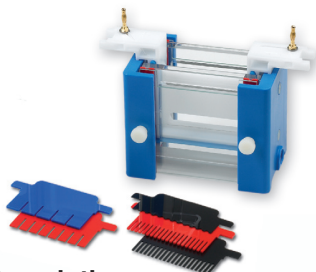


Standard casting set
(Cat. No. E0168)

Labnet Enduro Vertical Gel System Accessories

The Enduro Vertical Gel System can be customized to meet your needs. All modules fit into the buffer tank supplied with the system. Combs and spacers are color coded for easy identification. Well volumes are given below.

PAGE System (10 x 10 cm)



Plates and Spacers

Cat. no.

Description

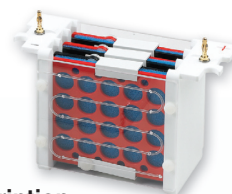
E2010-PM	PAGE insert
E2010-PC	Casting stand for PAGE insert
E2110-NG-2	Notched glass plates, set of 2
E2110-PG-2	Glass plates, set of 2
E2110-PG-0.75BS	Glass plate, bonded 0.75 mm spacers, 2 ea
E2110-PG-1-BS	Glass plate, bonded 1 mm spacers, 2 ea
E2110-PG-1.5BS	Glass plate, bonded 1.5 mm spacers, 2 ea
E2110-PG-2-BS	Glass plate, bonded 2 mm spacers, 2 ea
E2110-NG-0.75BS	Notched plate, bonded 0.75 mm spacers, 2 ea
E2110-NG-1-BS	Notched plate, bonded 1 mm spacers, 2 ea
E2110-NG-1.5BS	Notched plate, bonded 1.5 mm spacers, 2 ea
E2110-NG-2-BS	Notched plate, bonded 2 mm spacers, 2 ea
E2110-DP	Dummy plate, ea
E2110-0.75-S	Gel spacers, 0.75 mm, set of 2
E2110-1-S	Gel spacers, 1 mm, set of 2
E2110-1.5-S	Gel spacers, 1.5 mm, set of 2
E2110-2-S	Gel spacers, 2 mm, set of 2

Combs

Catalog no.	Wells	Well width	Thickness	Well Volume
E2110-12-1	12	3.75 mm	1 mm	35 μ l
E2110-12-1.5	12	3.75 mm	1.5 mm	50 μ l
E2110-10-1	10	4 mm	1 mm	40 μ l
E2110-10-1.5	10	4 mm	1.5 mm	60 μ l
E2110-10-0.75	10	4 mm	0.75 mm	30 μ l
E2110-5-1.5	5	10 mm	1.5 mm	150 μ l
E2110-5-0.75	5	10 mm	0.75 mm	75 μ l
E2110-16MC-1*	16	2.5 mm	1 mm	25 μ l
E2110-20-1	20	2 mm	1 mm	20 μ l
E2110-5-1	5	10 mm	1 mm	100 μ l
E2110-20-0.75	20	2 mm	0.75 mm	15 μ l
E2110-12-2	12	3.75 mm	2 mm	70 μ l
E2110-8MC-1*	8	6 mm	1 mm	60 μ l
E2110-20-1.5	20	2 mm	1.5 mm	30 μ l

*Multichannel compatible

Electroblotting System (10 x 10 cm)



Cat. no.

E2010-BM
E2110-B-MC
E2110-B-FP
E2110-CP

Description

Blotting insert, includes 3 cassettes
Mini blotting cassette
Fiber pads for blotting cassette, pk of 6
Mini cooling pack

2D Gel System



Cat. no.

E2010-2M
E2110-2D-CT
E2110-2D-BP
E2110-CP

Description

Tube gel insert with blanking ports
Capillary tubes, disposable, pk of 10
Blanking ports, pk of 10
Mini cooling pack

Labnet Enduro Horizontal Gel System Accessories

A variety of combs are available for the Enduro horizontal gel systems. Many of the combs and multichannel compatible. In addition, replacement gel trays and casting dams are also available.

Enduro 7.7 and 7.10 (7 cm wide)



Trays and Dams

Cat. no.	Description
E1007-7-GT	Gel tray, UV transparent, 7 x 7 cm
E1007-10-GT	Gel tray, UV transparent, 7 x 10 cm
E1007-CD	Casting dams, for 7 cm wide gel, pk of 2

Catalog no.	Wells	Thickness	Well Volume*	Multichannel Compatible
E1107-16-1.5	16	1.5 mm	15 µl	No
E1107-12MC-1.5	12	1.5 mm	20 µl	Yes
E1107-5-1.5	5	1.5 mm	68 µl	No
E1107-16-1	16	1 mm	27 µl	No
E1107-8-1	8	1 mm	25 µl	No
E1107-12MC-1	12	1 mm	14 µl	Yes
E1107-10-1.5	10	1.5 mm	27 µl	No

Enduro 15.10 and 15.15 (15 cm wide)



Trays and Dams

Cat. no.	Description
E1015-10-GT	Gel tray, UV transparent, 15 x 10 cm
E1015-15-GT	Gel tray, UV transparent, 15 x 15 cm
E1015-CD	Casting dams, for 15 cm wide gel, pk of 2

Catalog no.	Wells	Thickness	Well Volume*	Multichannel Compatible
E1115-16MC-1.5	16	1.5 mm	41 µl	Yes
E1115-20-1.5	20	1.5 mm	32 µl	No
E1115-30MC-1.5	30	1.5 mm	19 µl	Yes
E1115-28MC-1	28	1 mm	11 µl	Yes
E1115-30MC-1	30	1 mm	13 µl	Yes
E1115-20-1	20	1 mm	21 µl	No
E1115-8-1.5	8	1.5 mm	100 µl	No
E1115-14MC-2	14	2 mm	59 µl	Yes
E1115-18MC-1	18	1 mm	11 µl	Yes
E1115-20-2	20	2 mm	43 µl	No
E1115-35-1.5	35	1.5 mm	15 µl	No
E1115-16MC-1	16	1 mm	27 µl	Yes
E1115-18MC-1.5	18	1.5 mm	17 µl	Yes
E1115-12-1.5	12	1.5 mm	61 µl	No
E1115-20-0.75	20	0.75 mm	16 µl	No
E1115-12-1	12	1 mm	41 µl	No
E1115-14MC-1.5	14	1.5 mm	44 µl	Yes
E1115-16MC-1	16	1 mm	27 µl	Yes
E1115-10-1	10	1 mm	45 µl	No
E1115-14MC-1.5	14	1.5 mm	29 µl	Yes
E1115-28MC-0.75	28	0.75 mm	8 µl	Yes
E1115-10-1.5	10	1.5 mm	68 µl	No
E1115-16MC-2	16	2 mm	54 µl	Yes

Enduro 10.10 (10 cm wide)



Trays and Dams

Cat. no.	Description
E1010-10-GT	Gel tray, UV transparent, 10 x 10 cm
E1010-CD	Casting dams, for 10 cm wide gel, pk of 2

Catalog no.	Wells	Thickness	Well Volume*	Multichannel Compatible
E1110-20MC-1	20	1 mm	14 µl	Yes
E1110-10MC-1	10	1 mm	27 µl	Yes
E1110-20MC-1.5	20	1.5 mm	20 µl	Yes
E1110-12-1.5	12	1 mm	23 µl	No
E1110-16-1	16	1 mm	24 µl	No
E1110-8-1	8	1 mm	41 µl	No
E1110-16-0.75	16	0.75 mm	12 µl	No
E1110-16-2	16	2 mm	32 µl	No
E1110-12-1.5	12	1.5 mm	34 µl	No
E1110-10MC-1.5	10	1.5 mm	41 µl	Yes
E1110-12-0.75	12	0.75 mm	17 µl	No
E1110-25-2	25	2 mm	20 µl	No

Enduro 20.20 (20 cm wide)



Trays and Dams

Cat. no.	Description
E1020-20-GT	Gel tray, UV transparent, 20 x 20 cm
E1020-CD	Casting dams, for 20 cm wide gel, pk of 2

Catalog no.	Wells	Thickness	Well Volume*	Multichannel Compatible
E1120-20MC-1	20	1 mm	27 µl	Yes
E1120-20MC-0.75	20	0.75 mm	20 µl	Yes
E1120-40MC-1	40	1 mm	11 µl	Yes
E1120-40MC-1.5	40	1.5 mm	17 µl	Yes
E1120-20MC-1.5	20	1.5 mm	41 µl	Yes
E1120-25-1	25	1 mm	21 µl	No
E1120-30-1	30	1 mm	17 µl	No
E1120-40MC-2	40	2 mm	23 µl	Yes
E1120-16-0.75	16	0.75 mm	30 µl	No
E1120-50-2	50	2 mm	21 µl	No

*Approximate sample volume for 5 mm thick gel

ENDURO 96

HORIZONTAL GEL BOXES

User Manual



E1010-9611
E1010-9611.5
E1010-9621
E1010-9621.5

PACKING LISTS:

E1010-9611, E1010-9611.5, E1010-9621, E1010-9621.5

Units include tank, lid and electrodes and include the following accessories:-

Cat no.	Tray	Tray Dams	Combs and comb block	Cables
E1010-9611	E1010-96T 10 x 12cm (W x L)	E1010-CD Pack of 2	E1010-9611-CB	E1107-EP
E1010-9611.5	E1010-96T 10 x 12cm (W x L)	E1010-CD Pack of 2	E1010-9611.5-CB	E1107-EP
E1010-9621	E1010-96T 10 x 12cm (W x L)	E1010-CD Pack of 2	E1010-9621-CB	E1107-EP
E1010-9621.5	E1010-96T 10 x 12cm (W x L)	E1010-CD Pack of 2	E1010-9621.5-CB	E1107-EP

The packing lists should be referred to as soon as the units are received to ensure that all components have been included. The unit should be checked for damage when received.

Please contact your supplier if there are any problems or missing items.

Usage Guidance and restrictions:

- Maximum altitude 2,000m.
- Temperature range between 4°C and 65°C.
- Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.
- Not for outdoor Use.

This apparatus is rated POLLUTION DEGREE 2 in accordance with IEC 664. POLLUTION DEGREE 2, states that: “Normally only non-conductive pollution occurs.

Occasionally, however, a temporary conductivity caused by condensation must be expected”.

Care and Maintenance:-

Cleaning Horizontal Units

Units are best cleaned using warm water and a mild detergent. **Water at temperatures above 60° C can cause damage to the unit and components.**

The tank should be thoroughly rinsed with warm water or distilled water to prevent build up of salts but care should be taken not to damage the enclosed electrode and vigorous cleaning is not necessary or advised.

Air drying is preferably before use.

The units should only be cleaned with the following:-

Warm water with a mild concentration of soap or other mild detergent. Compatible detergents include dishwashing liquid, Hexane and Aliphatic hydrocarbons

The units should not be left to in detergents for more than 30 minutes.

The units should never come into contact with the following cleaning agents, these will cause irreversible and accumulative damage:-

Acetone, Phenol, Chloroform, Carbon tetrachloride, Methanol, Ethanol, Isopropyl alcohol
Alkalis.

Rnase Decontamination

This can be performed using the following protocol:-

Clean the units with a mild detergent as described above.

Wash with 3% hydrogen peroxide (H₂O₂) for 10 minutes.

Rinsed with 0.1% DEPC- (diethyl pyrocarbonate) treated distilled water,

Caution: DEPC is a suspected carcinogen. Always take the necessary precautions when using.

RNaseZAP™ (Ambion) can also be used. Please consult the instructions for use with acrylic gel tanks.

Setting up the Horizontal Gel Tanks:-

Instructions for fitting Electrode Cables

1. Note the position of the lid on the unit. This shows the correct polarity and the correct orientation of the cables, black is negative and red positive.
2. Remove the lid from the unit. Note if the lid is not removed, fitting the cables may result in un-tightening of the gold plug and damage to the electrode.
3. Screw the cables into the tapped holes as fully as possible so that there is no gap between the lid and the leading edge of the cable fitting.
4. Refit the lid.

Current Protocols in Molecular Biology, Greene Publishing Associates and Wiley-Interscience, 1989.

Solutions:-

1x TAE 40 mM tris (pH 7.6), 20 mM acetic acid, 1 mM EDTA.

50x (1L) dissolve in 750 ml distilled water:

242 g tris base (FW = 121)

57.1 ml glacial acetic acid

100 ml 0.5 M EDTA (pH 8.0).

Fill to 1 litre with distilled water.

1x TBE 89 mM tris (pH 7.6), 89 mM boric acid, 2 mM EDTA

10x (1L) dissolve in 750 ml distilled water:

108 g tris base (FW = 121)

55 g boric acid (FW = 61.8)

40 ml 0.5 M EDTA (pH 8.0)

Fill to 1 litre with distilled water.

Sample Loading Dye

10x sample buffer stock consists of 50% glycerol, 0.25% bromophenol blue, and

0.25% xylene cyanole FF in 1x TAE buffer. Only 1–10 ml of the 10x loading dye should be prepared.

Ethidium Bromide Solution

Add 10 mg of Ethidium Bromide to 1 ml distilled water.

Comb blocks– MC Denotes Multi Channel Pipette compatible.

Description	Part Number
96 Comb 8 sample MC + 1 Marker, 1mm thick COMB BLOCK	E1010-9611-CB
96 Comb 8 sample MC + 1 Marker, 1.5mm thick COMB BLOCK	E1010-9611.5-CB

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