

SUBMARINE ELECTROPHORETIC APPARATUS
COOLING CONSTANT TEMPERATURE ELECTROPHORETIC APPARATUS
SEQUENCE ELECTROPHORETIC APPARATUS
CHROMOSOMAL DNA ELECTROPHORETIC APPARATUS
GENOME SCANNING TWO DIMENSIONAL ELECTROPHORETIC APPARATUS
MINI-SLAB, WIDE MINI-SLAB ELECTROPHORETIC APPARATUS
SLAB ELECTROPHORETIC APPARATUS
DISK ELECTROPHORETIC APPARATUS
BLOTTING APPARATUS
CONSTANT TEMPERATURE CIRCULATOR
ELECTROPHORESIS POWER SOURCE
GEL DRYER
NON-FLUORESCENCE PLATE, PLATE RACK
BIO-SHAKER

ELECTROPHORESIS BIOINSTRUMENT CATALOGUE



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Manufactured by **Bio Craft**

About BIO CRAFT

Our company provides useful instruments such as nucleic acid electrophoresis, protein electrophoresis, various blotting apparatus, bio-shaker and other instruments to assist researchers involved in bio-engineering researches.

- This catalogue has been assembled as a guide for researchers and dealers.
- We are ready to comply with specialized specification of our apparatus and parts. Don't hesitate to contact us.
- The prices may be changed without notice. Be sure to confirm the price for purchasing.

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MINI-SUBMARINE ELECTROPHORETIC APPARATUS

Contents of Set	
Mini-submarine electrophoresis bath	1 unit
UV rack	1 piece
Sample comb (1 mm, 8 samples)	1 sheet
Lead wire +/-	1 string

Parts Name	Product No.
Mini-submarine electrophoresis bath	PA-050
UV rack	No. 5010
Sample comb (1mm, 8 samples, teeth width 3 mm)	No. 5011
Sample comb (1mm, 10 samples, teeth width 2 mm)	No. 5012
Lead wire +/-	No. 5013

MINI-SUBMARINE ELECTROPHORETIC APPARATUS

Contents of Set	
Mini-submarine electrophoresis bath	1 unit
UV rack	1 piece
Sample comb (1 mm, 13 samples)	1 sheet
Lead wire +/-	1 string

Parts Name	Product No.
Mini-submarine electrophoresis bath	PA-051
UV rack	No. 5014
Sample comb (1mm, 8 samples, teeth width 7 mm)	No. 5015
Sample comb (1mm, 10 samples, teeth width 5.5 mm)	No. 5016
Sample comb (1mm, 13 samples, teeth width 4 mm)	No. 5017
Sample comb (1mm, 15 samples, teeth width 3.5 mm)	No. 5018
Lead wire +/-	No. 5019

SUBMARINE ELECTROPHORETIC APPARATUS

Contents of Set	
Submarine electrophoresis bath	1 unit
UV rack	1 piece
Sample comb (1 mm, 16 samples)	2 sheets
Lead wire +/-	1 string

Parts Name	Product No.
Submarine electrophoresis bath	PA-052
UV rack	No. 5020
Sample comb (1mm, 10 samples, teeth width 10 mm)	No. 5021
Sample comb (1mm, 13 samples, teeth width 7 mm)	No. 5022
Sample comb (1mm, 16 samples, teeth width 5 mm)	No. 5023
Sample comb (1mm, 20 samples, teeth width 3.5 mm)	No. 5024
Lead wire +/-	No. 5025

Model : **BE-500**, Gel size : 50W × 70L

- Mini-gel size standard product
- Most suitable for student's practice



Model : **BE-550**, Gel size : 90W × 90L

- Most suitable for mini-gel submarine, economical apparatus
- Sharp separation within short period



Model : **BE-520**, Gel size : 135W × 150L

- Economical apparatus for DNA-RNA assay



LARGE-SIZE SUBMARINE ELECTROPHORETIC APPARATUS

Model : **BE-540**, Gel size : 200W × 250L

- Most suitable for multi-sample assay



Contents of Set	
Submarine electrophoresis bath	1 unit
UV rack	1 piece
Sample comb (1 mm, 32 samples)	3 sheets
Lead wire +/-	1 string

Parts Name	Product No.
Submarine electrophoresis bath	PA-053
UV rack	No. 5026
Sample comb (1mm, 24 samples, teeth width 5 mm)	No. 5027
Sample comb (1mm, 32 samples, teeth width 4 mm)	No. 5028
Lead wire, +/-	No. 5029

MINI-SUBMARINE ELECTROPHORETIC APPARATUS

Model : **BE-560**, Gel size : 110W × 60L

- μ -pit compatible mini-submarine
- μ -pit compatible power source
- μ -pit rack is available



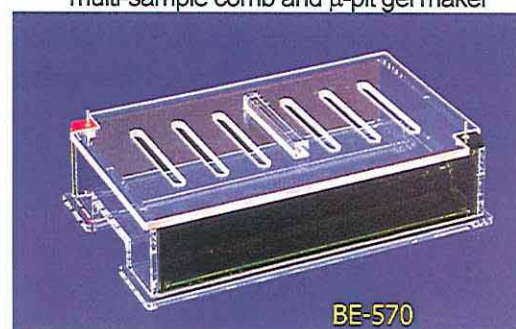
Contents of Set	
Mini-submarine electrophoresis bath	1 unit
Mini-power source (50W/100V)	1 unit
UV rack	1 piece
Sample comb (1 mm, 26 samples)	1 sheet
Lead wire +/-	1 string

Parts Name	Product No.
Mini-submarine electrophoresis bath	PA-054
Mini-power source	PA-055
UV rack	No. 5030
Sample comb (1mm, 13 samples, teeth width 5 mm)	No. 5031
Sample comb (1mm, 17 samples, teeth width 4 mm)	No. 5032
Sample comb (1mm, 26 samples, teeth width 2.5 mm)	No. 5033

WIDE MINI-SUBMARINE ELECTROPHORETIC APPARATUS

Model : **BE-570**, Gel size : 220W × 60L

- μ -pit compatible mini-submarine
- μ -pit gel maker (large size) twin type
- Multi-sample assay
- 50 samples can be processed by combining with twin gel maker, twin multi-sample comb and μ -pit gel maker



Contents of Set	
Wide mini-submarine electrophoresis bath	1 unit
UV rack	1 piece
Sample comb (1 mm, 51 samples)	1 sheet
Lead wire +/-	1 string

Parts Name	Product No.
Wide mini-submarine electrophoresis bath	PA-056
UV rack	No. 5034
Sample comb (1mm, 51 samples)	No. 5035
Lead wire +/-	No. 5036

MINI-SUBMARINE ELECTROPHORETIC APPARATUS

Contents of Set	
Submarine electrophoresis bath	1 unit
UV rack	1 piece
Gel maker	1 piece
Sample comb (1.5 mm, 26 samples)	1 sheet
Lead wire +/-	1 string

Parts Name	Product No.
Mini-submarine electrophoresis bath	PA-059
UV rack	No. 5040
Gel maker	No. 5041
Sample comb (1mm, 26 samples, teeth width 3 mm)	No. 5042
Sample comb (1.5mm, 26 samples, teeth width 3 mm)	No. 5043
Lead wire +/-	No. 5044

μ-PIT MULTISAMPLE COMB PA-057

- Set on a μ-pit gel holder
- Number of samples 25-12-12 samples and 25-13-13 samples
- Thickness of comb 1mm, 1.5 mm
- Ordered specification is available

PA-057 Type A	(25-12-12 samples, 1.5 mm)
PA-057 Type B	(25-12-12 samples, 1.0 mm)
PA-057 Type C	(25-13-13 samples, 1.5 mm)
PA-057 Type D	(25-13-13 samples, 1.0 mm)

μ-PIT TWIN GEL MAKER PA-058

- Two sets of the μ-pit gel maker (large size) can be set, and the twin multi-sample comb is used for 25-25 samples with a thickness of 1.5 mm.

Contents of set	
Twin gel maker	1 unit, Twin multi-sample comb (25-25 samples) 1 piece

Parts Name	Product No.
Twin gel holder	No. 5037
Twin multi-sample comb (25-25 samples, 1.5 mm)	No. 5038
Twin multi-sample comb (25-25 samples, 1 mm)	No. 5039

8-CHANNEL MINI-POWER SOURCE PA-059A, 100V, 50V, 5A

- A power source for exclusive use for the mini-submarine electrophoresis apparatus, supplies electricity up to 8 units.
- With constant voltage switch 50 ↔ 100V

Specification	
• Constant voltage : 50/100V	• Function : Constant voltage parallel output
• Current : 0 - 5A	• Size : 300 × 120 × 60 mm

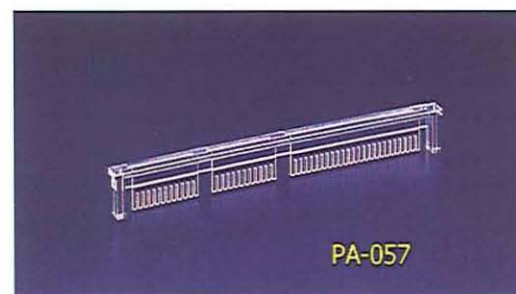
Multi-channel compatible

Model : **BE-580**, Gel size: 120W × 60L

- 24 samples can be applied in two runs using a 12 channel pipette, since the space of the sample comb is made to fit 96 well microtiter plate. 8 ch pipette is also available.
- For multi-sample assay and separation of PCR products

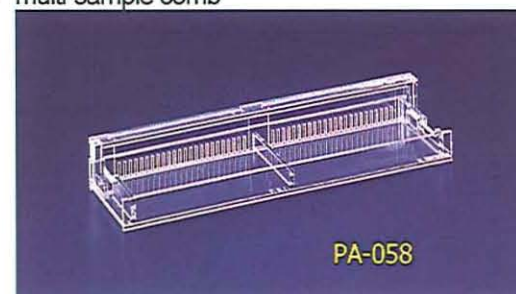


BE-580



PA-057

- The gel holder is combined with the twin multi-sample comb

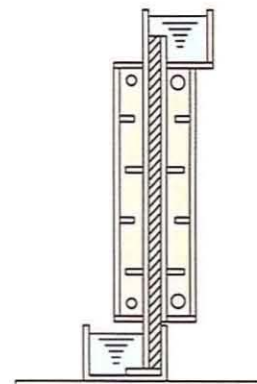


PA-058



PA-059A

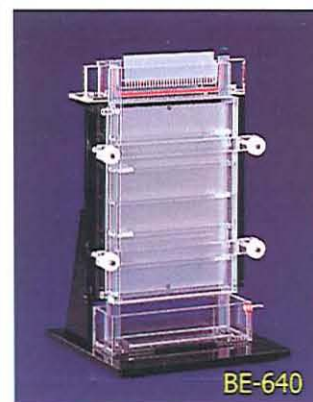
- Suitable for PCR-SSCP assay
- Gel is uniformly cooled at a constant temperature by cooling from both faces
- Sharp separation is possible
- Refrigerant is circulated from a constant temperature bath
- Use this instrument in combination with a constant temperature bath and constant voltage power source
- Plate size : 200/300 mm width



COOLING CONSTANT TEMPERATURE SEQUENCE ELECTROPHORETIC APPARATUS

Model : **BE-640**
200 mm width

Contents of set	
Cooling constant temperature sequence electrophoretic apparatus (200 mm width)	1 unit
Electrophoresis plate (200×400mm)	1 set
Shark comb (0.35 mm, 30 samples)	1 sheet
Spacer (0.35 mm, 420L)	2 sheets
Spacer (0.35 mm, 220L)	1 sheet
Constant temperature jacket (200×400mm)	1 piece
Clip	10 pieces
Hose (3m)	1 string
Lead wire +/- (pressure-resistant)	1 string



COOLING CONSTANT TEMPERATURE SEQUENCE ELECTROPHORETIC APPARATUS

Model : **BE-650**
300 mm width

Contents of set	
Cooling constant temperature sequence electrophoretic apparatus (300mm width)	1 unit
Electrophoresis plate (300×400mm)	1 set
Shark comb (0.35 mm, 52 samples)	1 sheet
Spacer (0.35 mm, 420L)	2 sheets
Spacer (0.35 mm, 320L)	1 sheet
Constant temperature jacket (300×400mm)	1 piece
Clip	10 pieces
Hose (3m)	1 string
Lead wire +/- (pressure-resistant)	1 string

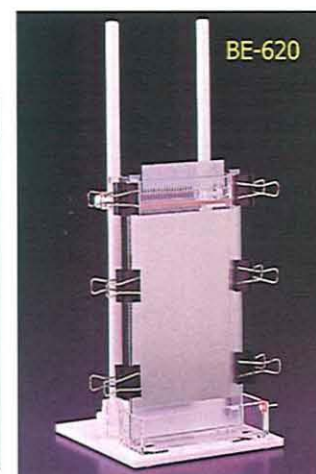


SEQUENCE ELECTROPHORETIC APPARATUS (STANDARD TYPE)

Model : **BE-620**, 200 mm width, single type

- Sequence electrophoretic apparatus. 200mm width, standard type

Contents of set	
Sequence electrophoretic apparatus (200 mm width)	1 unit
Electrophoresis plate (200×400 mm)	1 set
Shark comb (0.35 mm, 30 samples)	1 sheet
Spacer (0.35 mm, 420L)	2 sheets
Spacer (0.35 mm, 220L)	1 sheet
Heat dissipation plate (aluminum)	1 sheet
Pole (synthetic resin)	2 pieces
Clip	10 pieces
Lead wire +/- (pressure-resistant)	1 string

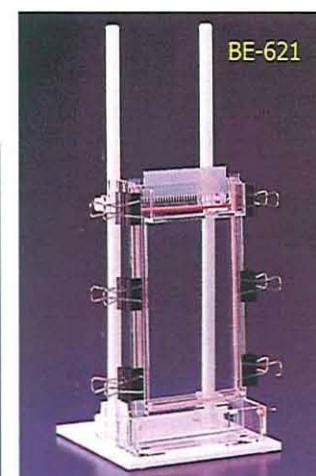


SEQUENCE ELECTROPHORETIC APPARATUS (JACKET TYPE)

Model : **BE-621**, 200 mm width, jacket type

- Sharp separation is possible due to uniform temperature distribution by employing a jacket method

Contents of set	
Sequence electrophoretic apparatus (200mm width)	1 unit
Electrophoresis plate (200×400mm)	1 set
Shark comb (0.35 mm, 30 samples)	1 sheet
Spacer (0.35 mm, 420L)	2 sheets
Spacer (0.35 mm, 220L)	1 sheet
Jacket (for 200mm × 400mm)	1 piece
Pole (synthetic resin)	2 pieces
Clip	10 pieces
Lead wire +/- (pressure-resistant)	1 string

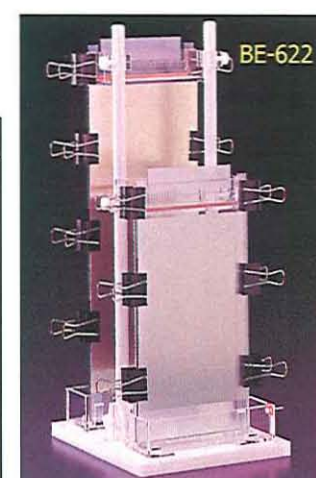


SEQUENCE ELECTROPHORETIC APPARATUS (ROTARY TWIN TYPE)

Model : **BE-622**, 200 mm width, rotary twin type

- Ready for sampling using rotary table
- Electrophoresis is possible by setting the same length of plates, or different length of plates

Contents of set	
Sequence electrophoretic apparatus (200mm rotary twin type)	1 unit
Electrophoresis plate (200×400mm)	2 sets
Shark comb (0.35 mm, 30 samples)	2 sheets
Spacer (0.35 mm, 420L)	4 sheets
Spacer (0.35 mm, 220L)	2 sheets
Heat dissipation plate (aluminum)	2 sheets
Pole (synthetic resin)	2 pieces
Clip	20 pieces
Lead wire +/- (pressure-resistant)	2 string

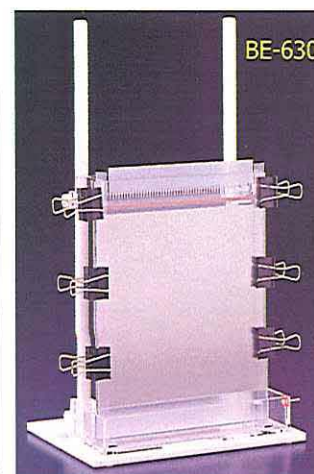


SEQUENCE ELECTROPHORETIC APPARATUS (STANDARD TYPE)

Model : **BE-630**, 300 mm width, single type

- Sequence electrophoretic apparatus. 300mm width, standard type

Contents of set	
Sequence electrophoretic apparatus (300mm width)	1 unit
Electrophoresis plate (300×400mm)	1 set
Shark comb (0.35 mm, 52 samples)	1 sheet
Spacer (0.35 mm, 420L)	2 sheets
Spacer (0.35 mm, 320L)	1 sheet
Heat dissipation plate (aluminum)	1 sheet
Pole (synthetic resin)	2 pieces
Clip	10 pieces
Lead wire +/- (pressure-resistant)	1 string

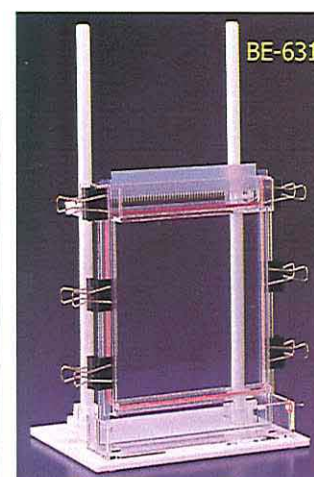


SEQUENCE ELECTROPHORETIC APPARATUS (JACKET TYPE)

Model : **BE-631**, 300 mm width, jacket type

- Sharp separation is possible with uniform temperature distribution by employing a jacket method

Contents of set	
Sequence electrophoretic apparatus (300mm width)	1 unit
Electrophoresis plate (300×400mm)	1 set
Shark comb (0.35 mm, 52 samples)	1 sheet
Spacer (0.35 mm, 420L)	2 sheets
Spacer (0.35 mm, 320L)	1 sheet
Jacket (for 300 × 400 mm)	1 piece
Pole (synthetic resin)	2 pieces
Clip	10 pieces
Lead wire +/- (pressure-resistant)	1 string

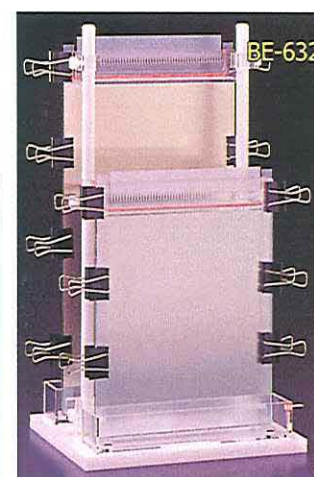


SEQUENCE ELECTROPHORETIC APPARATUS (ROTARY TWIN TYPE)

Model : **BE-632**, 300 mm width, rotary twin type

- Sharp separation is possible with uniform temperature distribution by employing a jacket method
- Ready for sampling using rotary table
- Electrophoresis is possible by setting the same length of plates, or different length of plates

Contents of set	
Sequence electrophoretic apparatus (300mm width, rotary twin type)	1 unit
Electrophoresis plate (300×400mm)	2 sets
Shark comb (0.35 mm, 52 samples)	2 sheets
Spacer (0.35 mm, 420L)	4 sheets
Spacer (0.35 mm, 320L)	2 sheets
Heat dissipation plate (aluminum)	2 sheets
Pole (synthetic resin)	2 pieces
Clip	20 pieces
Lead wire +/- (pressure-resistant)	2 strings

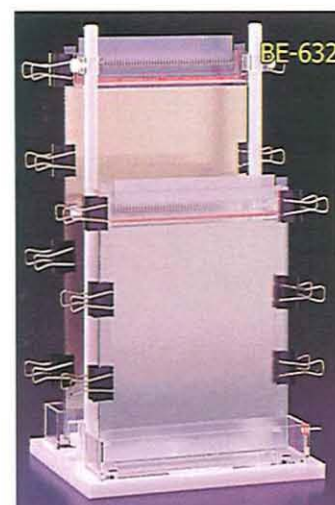


SEQUENCE ELECTROPHORETIC APPARATUS (for FluorImager)

Model : **BE-623**, 200 mm width, single type

- Suitable for FluorImager and STORM made by Molecular Dynamic Co. Non-fluorescence plate electrophoretic apparatus

Contents of set	
Sequence electrophoretic apparatus (200mm width)	1 unit
Non-Fluorescence plate (200×360mm)	1 set
Shark comb (0.35 mm, 30 samples)	1 sheet
Spacer (0.35 mm, 380L)	2 sheets
Spacer (0.35 mm, 220L)	1 sheet
Heat dissipation plate (aluminum)	1 sheet
Pole (synthetic resin)	2 pieces
Clip	10 pieces
Lead wire +/- (pressure-resistant)	1 string



PARTS FOR SEQUENCE ELECTROPHORETIC APPARATUS

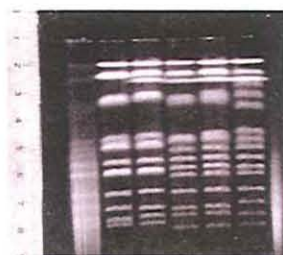
Name	For 200 mm type	No.
BE-620, BE623 sequence electrophoresis bath	(200mm width, single)	PA-060
BE-621 sequence electrophoresis bath	(200mm width, jacket)	PA-061
BE-622 sequence electrophoresis bath	(200mm width, rotary twin)	PA-062
BE-640 cooling constant temperature sequence electrophoresis bath	(200mm width)	PA-063
BE-620, BE-621, BE-622, BE-623 upper electrophoresis bath		PA-064
BE-620, BE-621, BE-622, BE-623 lower electrophoresis bath		PA-065
Electrophoresis plate	(200 × 400mm, cut)	No. 6010
Electrophoresis plate	(200 × 400mm, flat)	No. 6011
Electrophoresis plate	(200 × 475mm, cut)	No. 6012
Electrophoresis plate	(200 × 475mm, flat)	No. 6013
Electrophoresis plate	(200 × 600mm, cut)	No. 6014
Electrophoresis plate	(200 × 600mm, flat)	No. 6015
Sharp comb	(0.35mm, 30 samples)	No. 6016
Spacer	(0.35 mm, 1100 mm) 2 sheets	No. 6017
Heat dissipation plate	(200 × 400mm)	No. 6018
Heat dissipation plate	(200 × 360mm)	No. 6018M
Heat dissipation plate	(200 × 475mm)	No. 6019
Heat dissipation plate	(200 × 600mm)	No. 6020
BE-621 jacket	(200 × 400 mm)	No. 6021
BE-640 constant temperature jacket	(200 × 400mm)	No. 6022
Clip	(10 pieces)	No. 6023
Pole	(two rods)	No. 6024
Sample comb	(0.3mm, 28 samples)	No. 6025
Sample comb	(0.5mm, 28 samples)	No. 6026
Spacer	(0.3mm, 1100mm) 2 sheets	No. 6027
Spacer	(0.5mm, 1100mm) 2 sheets	No. 6028
Upper electrophoresis bath packing	(1m)	No. 6050
Lead wire +/- (pressure-resistant)		No. 6029

PARTS FOR SEQUENCE ELECTROPHORETIC APPARATUS

Name	For 300 mm type	No.
BE-630 sequence electrophoresis bath	(300mm width, single)	PA-066
BE-631 sequence electrophoresis bath	(300mm width, jacket)	PA-067
BE-632 sequence electrophoresis bath	(300mm width, rotary twin)	PA-068
BE-650 cooling constant temperature sequence electrophoresis bath	(200mm width)	PA-069
BE-630, BE-621, BE-622, upper electrophoresis bath		PA-070
BE-620, BE-631, BE-632, lower electrophoresis bath		PA-071
Electrophoresis plate	(300 × 400mm, cut)	No. 6030
Electrophoresis plate	(300 × 400mm, flat)	No. 6031
Electrophoresis plate	(300 × 475mm, cut)	No. 6032
Electrophoresis plate	(300 × 475mm, flat)	No. 6033
Electrophoresis plate	(300 × 600mm, cut)	No. 6034
Electrophoresis plate	(300 × 600mm, flat)	No. 6035
Sharp comb	(0.35mm, 52 samples)	No. 6036
Spacer	(0.35 mm, 1100 mm) 2 sheets	No. 6037
Heat dissipation plate	(300 × 400mm)	No. 6038
Heat dissipation plate	(300 × 475mm)	No. 6039
Heat dissipation plate	(300 × 600mm)	No. 6040
BE-631 jacket	(300 × 400 mm)	No. 6041
BE-650 constant temperature jacket	(200 × 400mm)	No. 6042
Clip	(10 pieces)	No. 6043
Pole	(two rods)	No. 6044
Sample comb	(0.3mm, 32 samples)	No. 6045
Sample comb	(0.5mm, 32 samples)	No. 6046
Spacer	(0.3mm, 1100mm) 2 sheets	No. 6047
Spacer	(0.5mm, 1100mm) 2 sheets	No. 6048
Upper electrophoresis bath packing	(1m)	No. 6051
Lead wire +/- (pressure-resistant)		No. 6049

CHROMOSOMAL DNA ELECTROPHORETIC APPARATUS BS-80

- Suitable apparatus for DNA chromosomal assay composed of a cooling electrophoresis bath, pulse time power source. Giant DNA can be sharply separated. Use for analysis of yeast chromosome, and plasmids of protozoa and actinomycete.



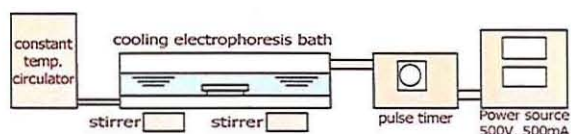
Example of separation of yeast chromosome

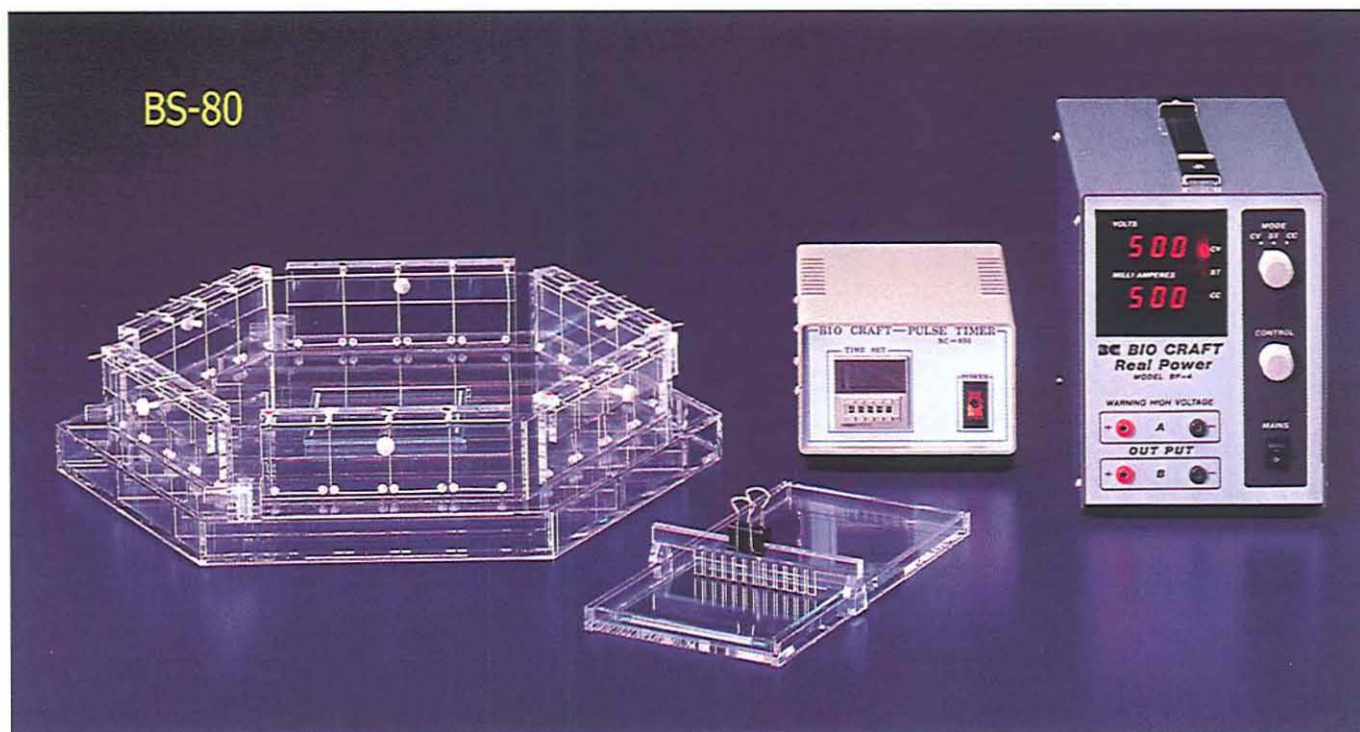
condition	
pulse time	80 sec.
gel concentration	1%
voltage	180 V
temperature	14°C
electrophoresis time	24 hr

SPECIFICATION

- BE-900 Cooling Electrophoresis Bath (1 unit)
 - Gel size : 102 × 102 mm
 - Thickness of gel : 5 mm
 - Sample comb : 10 samples, 1.5 mm
 - Material : acrylic resin
 - Electrode : White gold
 - Size : 440(W) × 383(D) × 84(H) mm
- BC-950 Pulse Timer (1 unit)
 - Setting time : 0.1 sec ~ 100 hrs
 - Polarity : variable with timer
 - Size : 135(W) × 180(D) × 90(H) mm
- BP-4 Real Power (1 unit)
 - Output : 500V, 500 mA
 - Constant voltage : 0 ~ 500 V
 - Constant current : 0 ~ 500 mA
 - Size : 150(W) × 240(D) × 210(H) mm

Example of Use





BS-80

Model : BS-80

Contents of set	
Cooling chromosomal DNA electrophoretic apparatus	1 unit
Pulse timer (0.1 second ~ 100 hours)	1 unit
Real power (500V, 500 mA)	1 unit
Electrophoresis plate (102 × 102 mm)	2 sheets
Sample comb (1.5 mm, 10 samples)	2 sheets
Gel Preparation table	1 unit
Comb holder	1 unit
Hose	2 m

Chromosomal DNA electrophoretic apparatus

Parts Name	Product No.
Cooling chromosomal DNA electrophoretic apparatus	BE-900
Pulse timer (0.1 sec. ~ 100 hours)	BC-950
Real power (500V, 500 mA)	BP-4
Electrophoresis plate (102 × 102 mm)	No. S-9010
Sample comb (1 mm, 7 samples)	No. S-9011
Sample comb (1 mm, 10 samples)	No. S-9012
Sample comb (1 mm, 12 samples)	No. S-9013
Sample comb (1.5 mm, 7 samples)	No. S-9014
Sample comb (1.5 mm, 10 samples)	No. S-9015
Sample comb (1.5 mm, 12 samples)	No. S-9016
Gel preparation table	No. S-9017
Comb holder	No. S-9018
Optional constant temperature circulator	C-1

See page 22 for the circulating constant temperature bath

Restriction Landmark Genome Scanning (RLGS Method)

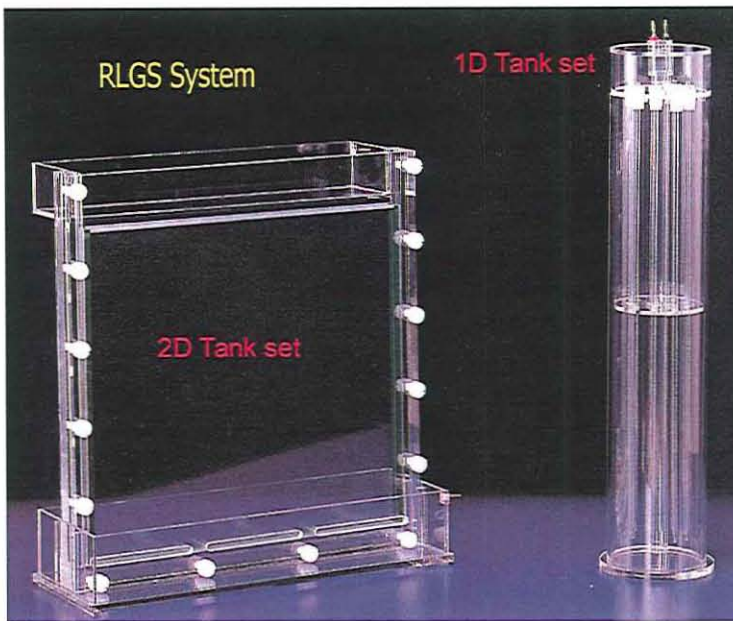
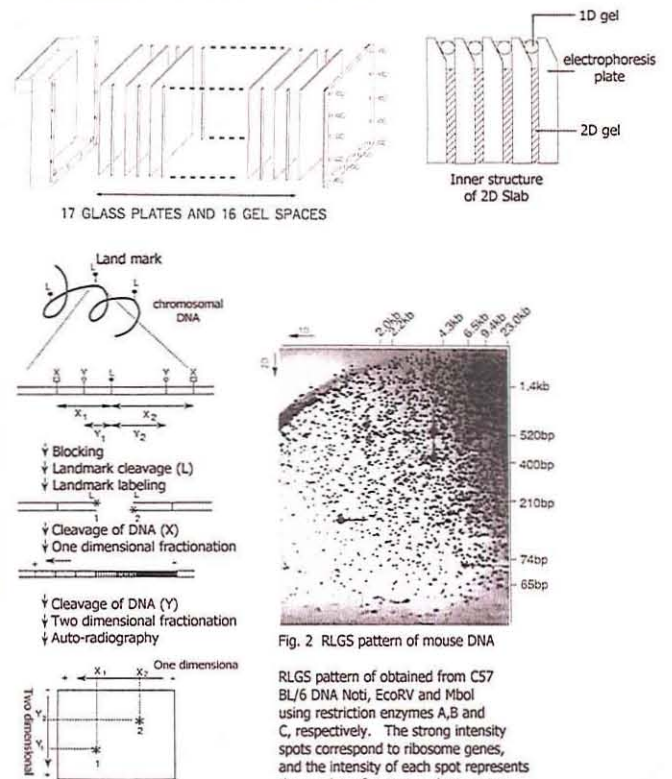


Illustration of RLGS method



The space of the conventional electrophoresis bath may be used for the multi-sample simultaneous electrophoresis slab and standard size electrophoresis slab.

Fig. 2 RLGS pattern of mouse DNA

RLGS pattern of obtained from C57 BL/6 DNA NotI, EcoRV and MboI using restriction enzymes A,B and C, respectively. The strong intensity spots correspond to ribosome genes, and the intensity of each spot represents the number of copies on the genome

Fig. 1 Illustration of RLGS method

GENOME SCANNING TWO DIMENSIONAL ELECTROPHORESIS APPARATUS (RLGS System)

Content of set and parts price	
1D disk electrophoresis bath	1 unit
1D electrophoresis column (10 piece)	1 set
1D silicone packing (10 piece)	1 set
2D slab electrophoresis bath (4 series)	1 unit
2D electrophoresis plate (5 sheets)	1 set
2D spacer (10 sheets)	1 set
2D dummy spacer (3 sheets)	1 set
Lead wire +/- (No. 0011)	1 string

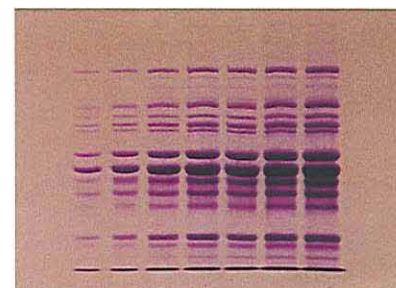
In a proposed method (restriction landmark genomic scanning; RLGS), terminals of restriction sites of a restriction enzyme are directly labeled using restriction sites of the restriction enzyme distributed on higher animal genome DNAs as land marks. In this method, the genome DNAs are cleaved into 8 to 10 bp units with the restriction enzyme, and the terminals thereof are directly labeled with radio isotopes followed by developing by high resolution two dimensional electrophoresis. This method is advantageous in many aspects. (1) the sites of 2000 to 300 spots are analyzed using a sheet

of gel, (2) accuracy of scanning can be further improved by using the different restriction enzymes, (3) the method is applicable to all biological samples since hybridization is not used, (4) the intensity of a spot reflects the number of copies of landmarks of a genome; discrimination of hybrids and deploids is also possible, and (5) CpG island can be specifically scanned using an enzyme abundant in CG; changes of methylation on a genome may be detected by using a methylation sensitive enzyme, and the number of copies can be decided by using a non-sensitive enzyme.

* Request the references with respect to the genome scanning (RLGS) method to our company. *

FEATURES OF MINI-REAL SLAB PERFECT BUFFER CONSTANT TEMPERATURE DESIGN

- **Bifacial cooling type**
- **Shortening of electrophoresis time**
High output electrophoresis by bifacial cooling effect of the electrophoresis faces --- mini-real slab within 30 minutes
- **Prevention of smiling effect**
Joule heat generated by electrophoresis is dissipated to stabilize the temperature of the entire gel.
- **Sharp separation up to both ends of the gel**
Separation patterns at both ends of the gel are not disturbed by the plate packing side sealing method, which enables sharp separations.
- **Plate setting-bar method**
Electrophoresis plate is simply and securing set without using clips and screws.
- **Design compatible with the use of commercially available gel**
Commercially available gels can be used for all the mini-slab electrophoresis baths. Use the wide mini-slab type real gel plate available from our company for the wide-mini cool slab electrophoresis bath.

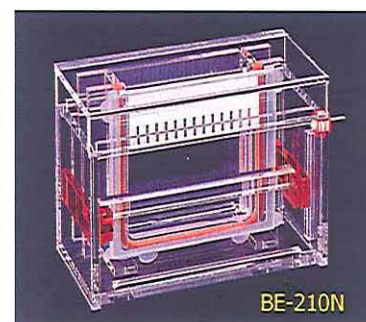
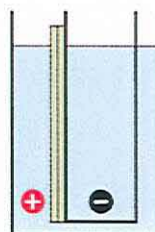


Use by BE-210, 30mA, Time : 1 hour

MINI-REAL SLAB ELECTROPHORETIC APPARATUS

Model : **BE-210N**, Bifacial cooling type

Content of set	
Mini-real slab electrophoresis bath	1 unit
Electrophoresis plate (106 × 100 × 1 mm)	1 set
Sample comb (1 mm, 12 samples)	1 sheet
Plate packing (1 mm)	1 sheet
Air-out needle	1 piece
Lead wire +/-	1 piece

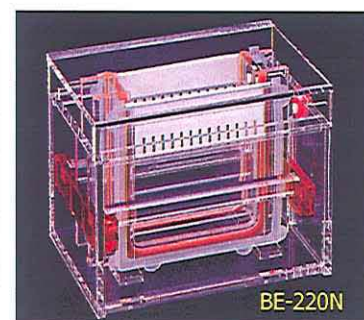
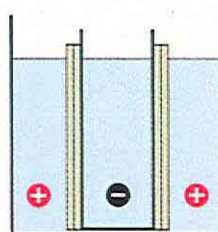


BE-210N

TWIN MINI-REAL SLAB ELECTROPHORETIC APPARATUS

Model : **BE-220N**, Twin bifacial cooling type

Content of set	
Twin mini-real slab electrophoresis bath	1 unit
Electrophoresis plate (106 × 100 × 1 mm)	2 set
Sample comb (1 mm, 12 samples)	2 sheet
Plate packing (1 mm)	2 sheet
Air-out needle	1 piece
Lead wire +/-	1 piece

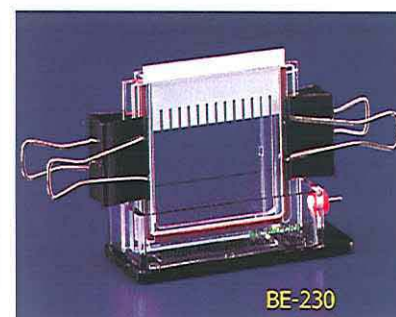
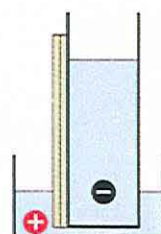


BE-220N

MINI COOLING SLAB ELECTROPHORETIC APPARATUS

Model : **BE-230**, One face cooling type

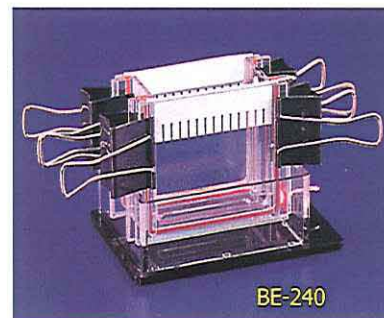
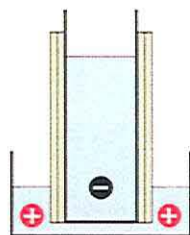
Content of set	
Mini-cooling slab electrophoresis bath	1 unit
Electrophoresis plate (106 × 100 × 1 mm)	1 set
Sample comb (1 mm, 12 samples)	1 sheet
Plate packing (1 mm)	1 sheet
Clip	2 piece
Lead wire +/-	1 piece



BE-230

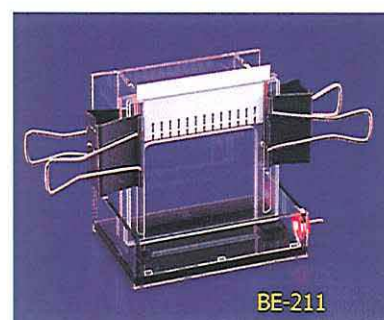
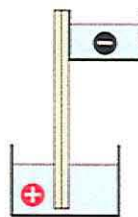
TWIN COOL MINI-SLAB ELECTROPHORETIC APPARATUS, Model : BE-240, Twin one face cooling type

Content of set	
Twin cool mini-slab electrophoresis bath	1 unit
Electrophoresis plate (106 × 100 × 1 mm)	2 sets
Sample comb (1 mm, 12 samples)	2 sheets
Plate packing (1 mm)	2 sheets
Clip	4 pieces
Lead wire +/-	1 unit



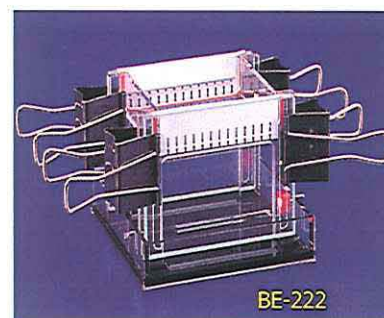
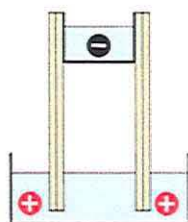
MINI-SLAB ELECTROPHORETIC APPARATUS, Model : BE-211, Standard type

Content of set	
Mini-slab electrophoresis bath	1 unit
Electrophoresis plate (106 × 100 × 1 mm)	1 set
Sample comb (1 mm, 12 samples)	1 sheet
Plate packing (1 mm)	1 sheet
Clip	2 pieces
Lead wire +/-	1 unit



TWIN MINI-SLAB ELECTROPHORETIC APPARATUS, Model : BE-222, Twin standard type

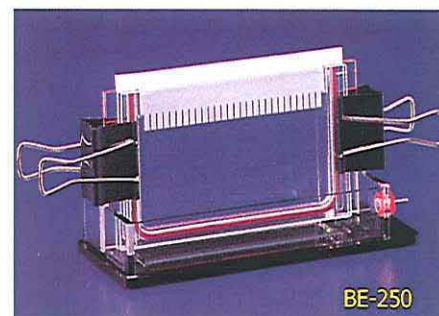
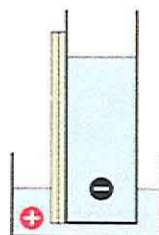
Content of set	
Twin cool mini-slab electrophoresis bath	1 unit
Electrophoresis plate (106 × 100 × 1 mm)	2 sets
Sample comb (1 mm, 12 samples)	2 sheets
Plate packing (1 mm)	2 sheets
Clip	4 pieces
Lead wire +/-	1 unit



WIDE COOL MINI-SLAB ELECTROPHORETIC APPARATUS, Multi-channel compatible BE-250

- One face cooling
- The distance between the sample comb is fitted to the distance between 96 wells of the micro-titer plate, application of 24 samples is completed by two runs using the 12 channel pipette.
- 8 Channel pipette is also available
- Multi-sample assay, DNA assay, separation of PCR product

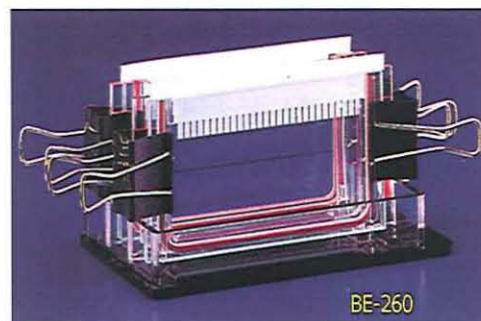
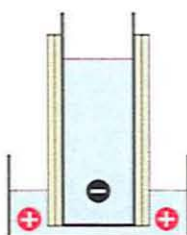
Content of set	
Twin cool mini-slab electrophoresis bath	1 unit
Electrophoresis plate (106 × 100 × 1 mm)	1 set
Sample comb (1 mm, 12 samples)	1 sheet
Plate packing (1 mm)	1 sheet
Clip	2 pieces
Lead wire +/-	1 unit



WIDE TWIN COOL MINI-SLAB ELECTROPHORETIC APPARATUS, Multi-channel compatible BE-260

- Twin one face cooling type
- The distance between the sample comb is fitted to the distance between 96 wells of the micro-titer plate, application of 24 samples is completed by two runs using the 12 channel pipette.
- 8 Channel pipette is also available
- Multi-sample analysis, separation of low molecular weight DNA, separation of PCR product

Content of set	
Wide twin cool mini-slab electrophoresis bath	1 unit
Electrophoresis plate (160 × 100 × 1 mm)	2 sets
Sample comb (1 mm, 28 samples)	2 sheets
Plate packing (1 mm)	2 sheets
Clip	4 pieces
Lead wire +/-	1 unit



Mini-slab Electrophoretic Apparatus - Parts

Name of product	No.	Name of product	No.
Mini-real slab electrophoresis bath	PA-210	Sample comb (4 samples, 1 mm, teeth width 16 mm)	1033
Twin mini-real slab electrophoresis bath	PA-220	Sample comb (6 samples, 1 mm, teeth width 10 mm)	1034
Cool mini-slab electrophoresis bath	PA-230	Sample comb (8 samples, 1 mm, teeth width 7 mm)	1035
Twin cool mini-slab electrophoresis bath	PA-240	Sample comb (10 samples, 1 mm, teeth width 5 mm)	1036
Mini-slab cool electrophoresis bath	PA-211	Sample comb (12 samples, 1 mm, teeth width 4 mm)	1037
Twin mini-slab electrophoresis bath	PA-222	Sample comb (14 samples, 1 mm, teeth width 3 mm)	1038
BE-210 inner electrophoresis bath	PA-010	Sample comb (18 samples, 1 mm, teeth width 2 mm)	1039
BE-210 outer electrophoresis bath	PA-011	Sample comb (1 sample marker, 2mm)	1040
BE-220 inner electrophoresis bath	PA-012	Sample comb (4 samples, 2 mm, teeth width 16 mm)	1041
BE-220 outer electrophoresis bath	PA-013	Sample comb (6 samples, 2 mm, teeth width 10 mm)	1042
BE-230 inner electrophoresis bath	PA-014	Sample comb (8 samples, 2 mm, teeth width 7 mm)	1043
BE-230 outer electrophoresis bath	PA-015	Sample comb (10 samples, 2 mm, teeth width 5 mm)	1044
BE-240 inner electrophoresis bath	PA-016	Sample comb (12 samples, 2 mm, teeth width 4 mm)	1045
BE-240 outer electrophoresis bath	PA-017	Sample comb (14 samples, 2 mm, teeth width 3 mm)	1046
Electrophoresis plate (106 × 100 mm, cut)	1025	Sample comb (18 samples, 2 mm, teeth width 2 mm)	1047
Electrophoresis plate (106 × 100 mm × 1 mm)	1026	Setting bar (BE-210, 220)	1049
Electrophoresis plate (106 × 100 mm × 2 mm)	1027	Dummy plate (BE-220)	1055
Electrophoresis plate (106 × 80 mm, cut)	1028	Air-out needle	1057
Electrophoresis plate (106 × 80 mm × 1 mm)	1029	Clip (10 pieces)	1058
Electrophoresis plate (106 × 80 mm × 2 mm)	1030	BE-210, BE-220 electrophoresis bath packing (1 m)	1090
Plate packing (1 mm)	1031	BE-230, BE-240 electrophoresis bath packing 4.5φ (1 m)	1091
Plate packing (2 mm)	1048	BE-211, BE-222 electrophoresis bath packing 4.0φ (1 m)	1092
Sample comb (sample marker, 1mm)	1032	Lead wire +/-	1059

Wide Mini-slab Electrophoretic Apparatus - Parts

Name of product	No.	Name of product	No.
Wide-mini cool slab electrophoresis bath	PA-250	Plate packing (2 mm)	1064
Wide twin-mini cool slab electrophoresis bath	PA-260	Sample comb (28 samples, 1 mm, teeth width 3 mm)	1065
BE-250 inner electrophoresis bath	PA-018	Sample comb (32 samples, 1 mm, teeth width 2.5 mm)	1066
BE-250 outer electrophoresis bath	PA-019	Sample comb (37 samples, 1 mm, teeth width 2 mm)	1067
BE-260 inner electrophoresis bath	PA-W020	Sample comb (28 samples, 2 mm, teeth width 3 mm)	1068
BE-260 outer electrophoresis bath	PA-W021	Sample comb (32 samples, 2 mm, teeth width 2.5 mm)	1069
Electrophoresis plate (160 × 100 mm, cut)	1060	Sample comb (37 samples, 2 mm, teeth width 2 mm)	1070
Electrophoresis plate (160 × 100 × 1 mm)	1061	Electrophoresis bath packing 4.5φ (1 m)	1071
Electrophoresis plate (160 × 100 × 2 mm)	1062	Lead wire +/-	1072
Plate packing (1 mm)	1063		

Features of real slab perfect buffer constant temperature design

- Sharp separation up to both ends of the gel

Sharp separations at both ends are possible without distortion by employing the plate packing side sealing method.

- Prevention of smiling phenomenon

The temperature of the entire gel is stabilized by dissipating Joule heat generated during electrophoresis

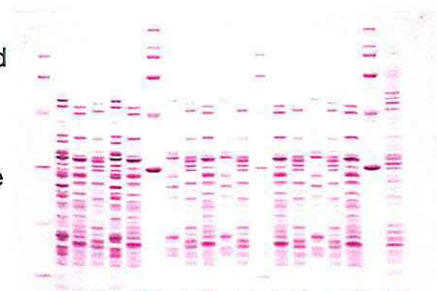
- Shortening of electrophoresis time

High out put electrophoresis due to cooling effect of electrophoresis plate surface

- Plate setting bar method : Plate setting is simple with no use of clips and screws

- Design compatible with commercially available gel

Use the real gel plate sold by our company

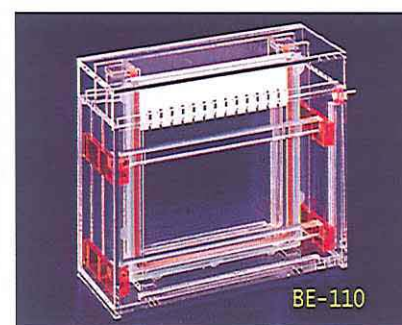
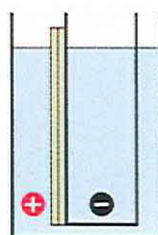


Use by BE-110, 500V, Time : 1 hour

REAL SLAB ELECTROPHORETIC APPARATUS

Model : **BE-110**, Bifacial cooling type

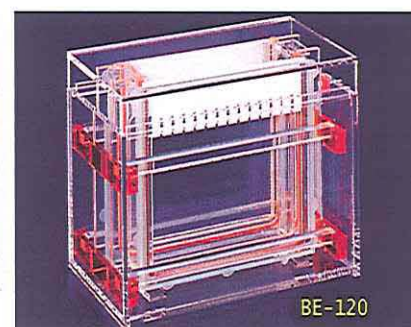
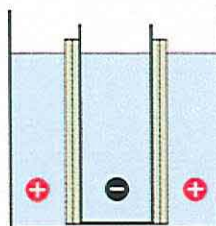
Content of set	
Real slab electrophoresis bath	1 set
Electrophoresis plate (160 × 160 × 1 mm)	1 pair
Sample comb (1mm, 12 samples)	1 sheet
Plate packing (1mm)	1 sheet
Air-out needle	1 piece
Lead wire +/-	1 piece



TWIN REAL SLAB ELECTROPHORETIC APPARATUS

Model : **BE-120**, Twin bifacial cooling type

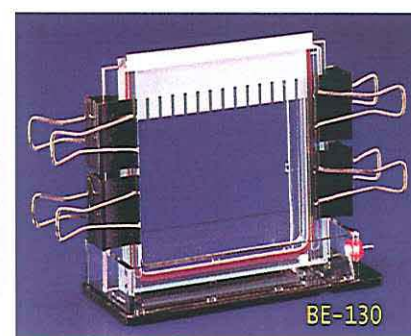
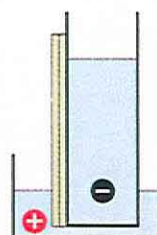
Content of set	
Twin real slab electrophoresis bath	1 set
Electrophoresis plate (160 × 160 × 1 mm)	2 pairs
Sample comb (1mm, 12 samples)	2 sheets
Plate packing (1mm)	2 sheets
Air-out needle	1 piece
Lead wire +/-	1 piece



COOL SLAB ELECTROPHORETIC APPARATUS

Model : **BE-130**, One face cooling type

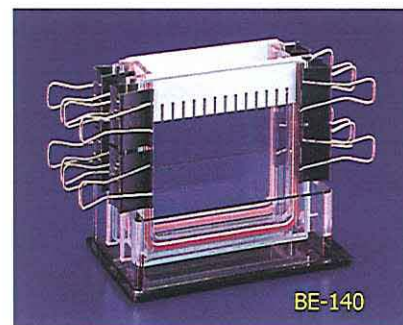
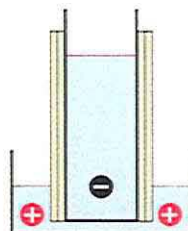
Content of set	
Cooling slab electrophoresis bath	1 set
Electrophoresis plate (160 × 160 × 1 mm)	1 pair
Sample comb (1mm, 12 samples)	1 sheet
Plate packing (1mm)	1 sheet
Air-out needle	4 pieces
Lead wire +/-	1 piece



TWIN COOL SLAB ELECTROPHORETIC APPARATUS

Model : **BE-140**, One face cooling type

Content of set	
Twin cooling slab electrophoresis bath	1 set
Electrophoresis plate (160 × 160 × 1 mm)	2 pairs
Sample comb (1mm, 12 samples)	2 sheets
Plate packing (1mm)	2 sheets
Clip	8 pieces
Lead wire +/-	1 piece



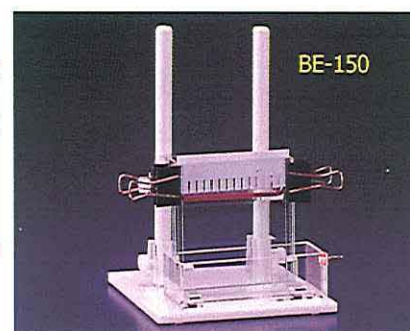
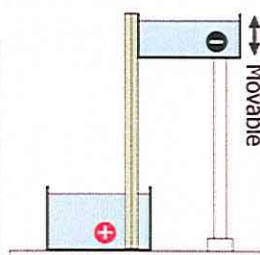
BE-140

MOVABLE SLAB ELECTROPHORETIC APPARATUS, Model : **BE-150**

- Upper buffer layer is vertically movable; suitable for long distance electrophoresis up to a longest electrophoresis plate length of 300 mm.

- Optional electrophoresis plate size is available on request

Content of set	
Movable slab electrophoresis bath	1 set
Electrophoresis plate (160 × 160 × 1 mm)	1 pair
Sample comb (1mm, 12 samples)	1 sheet
Plate packing (1mm)	1 sheet
Clip	4 pieces
Lead wire +/-	1 piece

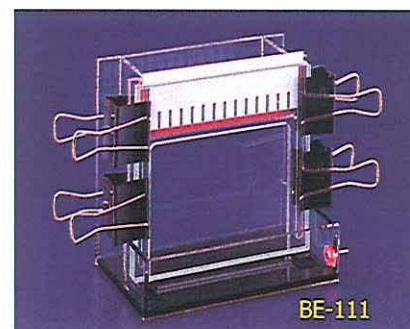
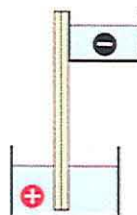


BE-150

SLAB ELECTROPHORETIC APPARATUS

Model : **BE-111**, Standard type

Content of set	
Slab electrophoresis bath	1 set
Electrophoresis plate (160 × 160 × 1 mm)	1 pair
Sample comb (1mm, 12 samples)	1 sheet
Plate packing (1mm)	1 sheet
Clip	4 pieces
Lead wire +/-	1 piece

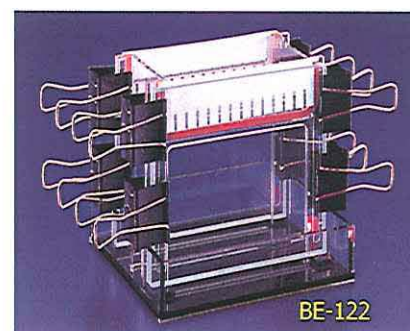
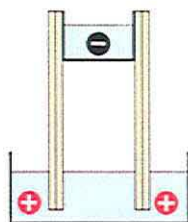


BE-111

TWIN SLAB ELECTROPHORETIC APPARATUS

Model : **BE-122**, Twin standard type

Content of set	
Slab electrophoresis bath	1 set
Electrophoresis plate (160 × 160 × 1 mm)	2 pairs
Sample comb (1mm, 12 samples)	2 sheets
Plate packing (1mm)	2 sheets
Clip	8 pieces
Lead wire +/-	1 piece

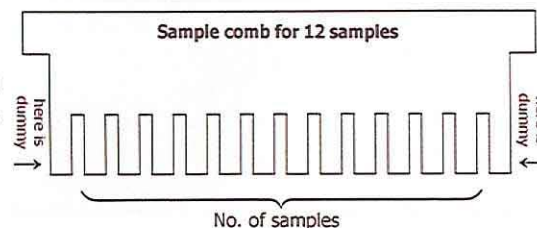


BE-122

Notice for sample comb

The number of samples of the sample comb sold by our company is as follows:

Dummy parts at both ends are not related to the number of the samples. Be careful not to count the dummy parts into the number of the samples in the case of the samples combs for 10 and 12 samples, since the dummy parts has the same teeth with as the sample part.



Slab Electrophoretic Apparatus – Parts

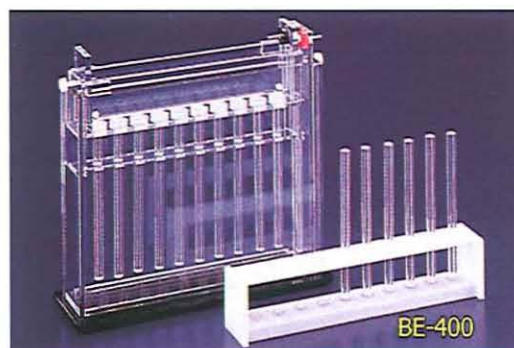
Name of Product	No.
Real slab electrophoresis bath	PA-110
Twin real slab electrophoresis bath	PA-120
Cool slab electrophoresis bath	PA-130
Twin cool slab electrophoresis bath	PA-140
Movable slab electrophoresis bath	PA-150
Slab electrophoresis bath	PA-111
Twin slab electrophoresis bath	PA-122
BE-110 inner electrophoresis bath	PA-006
BE-110 outer electrophoresis bath	PA-007
BE-120 inner electrophoresis bath	PA-008
BE-120 outer electrophoresis bath	PA-009
BE-130 inner electrophoresis bath	PA-S020
BE-130 outer electrophoresis bath	PA-S021
BE-140 inner electrophoresis bath	PA-022
BE-140 outer electrophoresis bath	PA-023
BE-150 inner electrophoresis bath	PA-024
BE-150 outer electrophoresis bath	PA-025
Electrophoresis plate (160 × 160 mm, cut)	1001
Electrophoresis plate (160 × 160 × 1 mm)	1002
Electrophoresis plate (160 × 160 × 2 mm)	1003
Plate packing (1 mm)	1004
Plate packing (2 mm)	1050
Sample comb (1 sample, marker)	1005
Sample comb (6 sample, 1 mm, teeth width 17 mm)	1006
Sample comb (8 sample, 1 mm, teeth width 12 mm)	1007
Sample comb (10 sample, 1 mm, teeth width 9 mm)	1008
Sample comb (12 sample, 1 mm, teeth width 7 mm)	1009
Sample comb (14 sample, 1 mm, teeth width 7 mm)	1010
Sample comb (16 sample, 1 mm, teeth width 6 mm)	1011
Sample comb (18 sample, 1 mm, teeth width 5 mm)	1012
Sample comb (20 sample, 1 mm, teeth width 4 mm)	1013
Sample comb (24 sample, 1 mm, teeth width 3 mm)	1014
Sample comb (1 sample, marker, 2 mm)	1015
Sample comb (6 sample, 2 mm, teeth width 17 mm)	1016
Sample comb (8 sample, 2 mm, teeth width 12 mm)	1017
Sample comb (10 sample, 2 mm, teeth width 9 mm)	1018
Sample comb (12 sample, 2 mm, teeth width 7 mm)	1019
Sample comb (14 sample, 2mm, teeth width 7 mm)	1020
Sample comb (16 sample, 2 mm, teeth width 6 mm)	1021
Sample comb (18 sample, 2 mm, teeth width 5 mm)	1022
Sample comb (20 sample, 2 mm, teeth width 4 mm)	1023
Sample comb (24 sample, 2 mm, teeth width 3 mm)	1024
Dummy plate BE-120	1051
Air-out needle	1052
Clip (10 pieces)	1053
Setting bar (BE-110, 120) 2 ea	1075
Electrophoresis bath packing (BE-110, 120) 1 m	1077
Electrophoresis bath packing (BE-130, 140, 150) 1 m	1078
Lead wire +/- (BE-150)	0011
Lead wire +/-	1054

- Suitable for gel isoelectric electrophoresis and one-dimensional isoelectric electrophoresis of two-dimensional electrophoresis
- Applicable for protein two-dimensional electrophoresis and amino acid sequence analysis

DISK ELECTROPHORETIC APPARATUS

Model : **BE-400**

Contents of set	
Disk electrophoresis bath	1 unit
Gel Preparation table	1 piece
Disk column (7φ × 2.5φ × 130 mm)	10 pieces
Shield packing	10 pieces
Lead wire +/-	1 piece



MINI-DISK ELECTROPHORETIC APPARATUS

Model : **BE-410**

Contents of set	
Min-disk electrophoresis bath	1 unit
Mini-disk column (1.5φ × 1φ × 126 mm)	10 pieces
seal plug	10 pieces
Lead wire +/-	1 piece



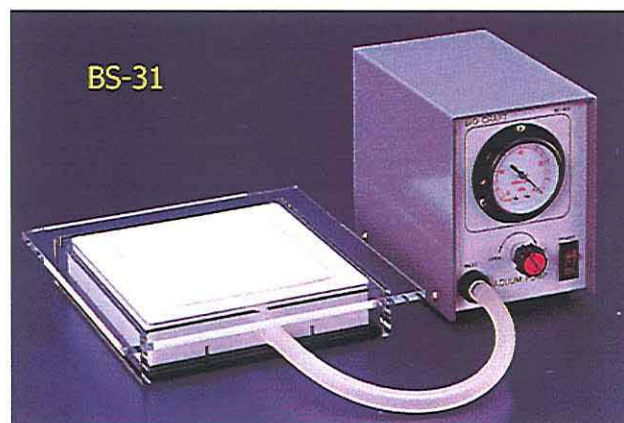
DISK ELECTROPHORETIC APPARATUS – PARTS

Name of product	No.
Disk electrophoresis bath	PA-040
Mini-disk electrophoresis bath	PA-041
Disk column (7φ × 2.5φ × 130 mm), 10 pieces	4010
Disk column (7φ × 5φ × 130 mm), 10 pieces	4011
Disk column (7φ × 2.5φ × 80 mm), 10 pieces	4012
Disk column (7φ × 5φ × 80 mm), 10 pieces	4013
Mini-column (1.5φ × 1φ × 126 mm), 10 pieces	4014
Gel preparation table	4020
Column packing (7φ), 10 pieces	4025
Mini-column packing (1.5φ), 10 pieces	4026
Shield packing (disk), 10 pieces	4027
Seal plug (mini-disk), 10 pieces	4028
Lead wire +/-	4029

(NUCLEIC ACID BLOTTING)

VACUUM TRANSFER APPARATUS, Model : **BS-31**

- Rapid processing of Southern blotting
- Reduces buffer volume by using special pad
- Ready setting of gel
- Maximum gel size 160 × 160
- Prevent gel from breakage using a low suction pressure pump



Content of set	
Vacuum transfer bath BE-600	1 unit
Vacuum pump BC-651	1 unit
Porous plate	1 sheet
Special pad	1 sheet
Seal sheet	2 sheets
Hose	1 piece
Punch	1 piece

Vacuum transfer bath parts

Model : **BE-600**

Content of set	
Transfer bath BE-600	1 unit
Porous plate	1 sheet
Special pad	1 sheet
Seal sheet	2 sheets
Hose	1 piece
Punch	1 piece

Vacuum pump, Model : **BC-651**

Specification

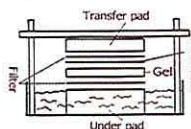
Suction pressure	0 - 130 mm/Hg
Pressure control	continuously variable
Size	120 × 200 × 180 mm
Weight	2.5 kg

Vacuum transfer apparatus parts

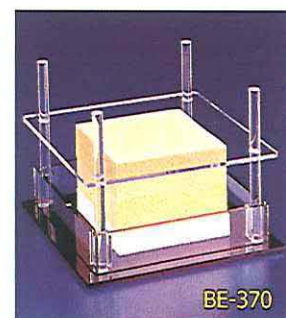
Name of parts	No.
Special pad (150 × 135 mm)	PA-3010
Seal sheet (5 sheets)	PA-3015
Porous plate (180 × 180)	PA-3012
Hose (1 m)	PA-3013
Punch	PA-3014

CAPILLARY TRANSFER APPARATUS, Model : **BE-370**

- Economical experiments by repeated used of transfer pad and under pad capable of cleaning and autoclave
- The buffer uniformly permeates in the entire surface of the agarose gel by using the under pad
- Safe and reliable Southern/Northern blotting using transfer chamber
- Alkali buffer can be used



Specification / Contents of set	No.
Transfer chamber 220 × 220 mm	1 unit PA-3070
Under pad 150 × 150 × 30 mm	1 unit PA-3071
Transfer pad 150 × 150 × 45 mm	2 units PA-3072



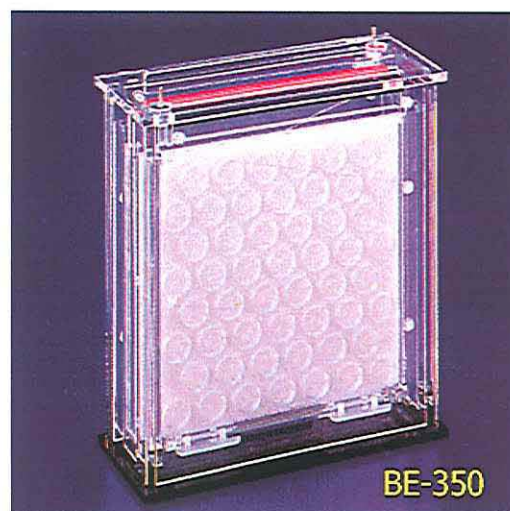
(PROTEIN ACID BLOTTING)

BUFFER TRANSFER APPARATUS, Model : **BE-350**

- For slab gel, wide-mini-size gel

Contents of set	
Buffer transfer bath	1 unit
Gel holder	1 pair
Pad (160 × 160 mm)	2 sheets
Lead wire +/-	1 unit

Specification	
Gel size	160 × 160 mm
Buffer volume	1300 ml
size	200 × 70 × 220 mm



(PROTEIN BLOTTING)

TWIN BUFFER TRANSFER APPARATUS, Model : **BE-350W**

- For slab gel, wide-mini gel size (two sheets)

Contents of set	
Twin buffer transfer bath	1 unit
Gel holder	2 pairs
Pad (160 × 160 mm)	4 sheets
Lead wire +/-	1 unit

Specification	
Gel size	160 × 160 mm
Buffer volume	1800 ml
Size	200 × 110 × 220 mm



MINI BUFFER TRANSFER APPARATUS, Model : **BE-351**

- Mini-gel size

Contents of set	
Mini-buffer transfer bath	1 unit
Gel holder	2 pairs
Pad (100 × 100 mm)	2 sheets
Lead wire +/-	1 unit

Specification	
Gel size	100 × 100 mm
Buffer volume	500 ml
Size	130 × 70 × 150 mm

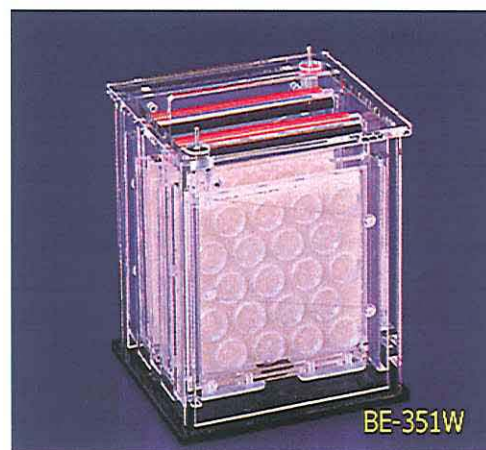


TWIN MINI BUFFER TRANSFER APPARATUS, Model : **BE-351W**

- Mini-gel size (two sheets)

Contents of set	
Twin mini-buffer transfer bath	1 unit
Gel holder	2 pairs
Pad (100 × 100 mm)	4 sheets
Lead wire +/-	1 unit

Specification	
Gel size	100 × 100 mm, 2 sheets
Buffer volume	750 ml
Size	130 × 110 × 150 mm



Name of Product	No.
BE-350 buffer transfer bath	PA-350
BE-350W twin buffer transfer bath	PA-350W
BE-351 mini-buffer transfer bath	PA-351
BE-351W twin mini-buffer transfer bath	PA-351W
Gel holder (160 × 160 mm)	3050
Gel holder (100 × 100 mm)	3051
Pad (160 × 160 mm)	3052
Pad (100 × 100 mm)	3053
Lead wire +/-	3054

(PROTEIN BLOTTING)

MINI-SEMIDRY TRANSFER APPARATUS

carbon electrode type : **BE-310**

- Proteins are transferred within short time. • Suitable for mini-gel size
- carbon plate - anode/stainless steel plate – cathode

Specification	
Electrode size	100 × 100 mm
Current	max. 150 mA
Voltage	5 - 15 V
Time	30 - 60 minutes
Size	150 × 150 × 50 mm
Weight	0.8g



SEMIDRY TRANSFER APPARATUS, Carbon electrode type : **BE-300**

- For slab gel, wide mini-gel and mini-gel size; Two sheets of mini-gel and wide mini-gel size can be transferred within short time
- carbon plate - anode/stainless steel plate – cathode

Specification	
Electrode size	200 × 200 mm
Current	max. 500 mA
Voltage	5 - 15 V
Time	30 - 60 minutes
Size	250 × 250 × 50 mm
Weight	1.8g



MINI-SEMIDRY TRANSFER APPARATUS

Platinum electrode type : **BE-320**

- Platinum electrode; semidry type transfer apparatus compensating drawbacks of carbon electrode
- Efficiently transfers within short time. • For mini-gel size

Specification	
Electrode size	100 × 100 mm
Current	max. 150 mA
Voltage	5 - 15 V
Time	30 - 60 minutes
Size	150 × 160 × 50 mm
Weight	0.8g



SEMIDRY TRANSFER APPARATUS, Platinum electrode type : **BE-330**

- Platinum plate; efficient transfer within short time
- Semidry type transfer apparatus compensating drawbacks of carbon electrode. • For slab gel, wide mini-gel and mini-gel size

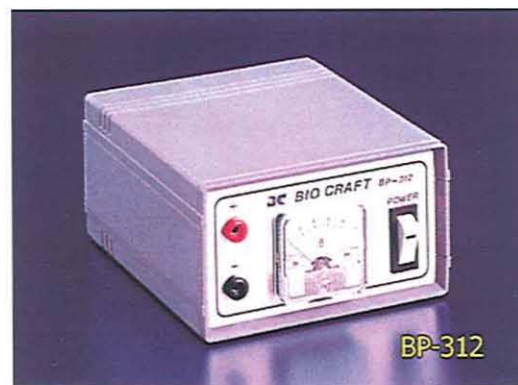
Specification	
Electrode size	200 × 200 mm
Current	max. 500 mA
Voltage	5 - 15 V
Time	30 - 60 minutes
Size	250 × 250 × 50 mm
Weight	1.4g



SEMIDRY POWER, Model : **BP-312**

- Power source for semidry transfer
- Set the voltage and current outputs to suitable levels for blotting

Specification	
Voltage output	12V
Maximum current	800 mA
Performance	constant voltage
Size	130 × 135 × 60 mm
Weight	0.8 kg



WESTERN BLOTTING FILTER PVDF MEMBRANE

- The PVDF transfer membrane efficiently binds proteins
- Low background and high sensitivity

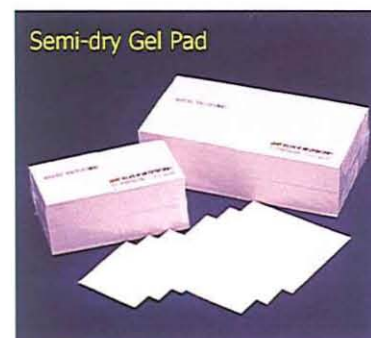
Name of Product	No.	Size	Quantity	Use
Blotting filter	PV-1	265 × 3 m roll	1 real	Multipurpose by cutting
Blotting filter	PV-2	200 × 200 mm	20 sheets	
Blotting filter	PV-3	130 × 140 mm	10 sheets	slab gel, mini-wide gel
Blotting filter	PV-4	85 × 90 mm	20 sheets	mini-slab gel



SEMIDRY GEL PAD (FILTER PAPER)

- Suitable for pads for semidry transfer
- Thickness is three times larger than conventional filters and Wattman 3MM filters
- Precut size; for slab mini-gel

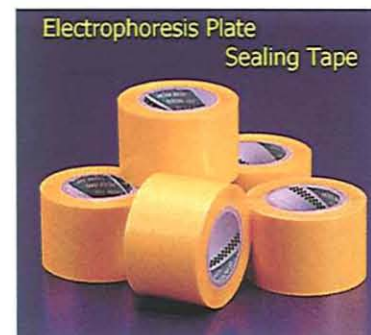
Name of Product	No.	Size	Quantity
Gel pad (for mini-slab gel)	7001	85 × 90	100 sheets
Gel pad (for slab gel)	7002	130 × 140	100 sheets



ELECTROPHORESIS PLATE SEALING TAPE

- Suitable for seal of electrophoresis plate
- High sealing ability; no residual sticky agents after removing the tape; ready for cleaning

Name of Product	No.	Color	Width	Use
Sealing tape	PA-670	yellow	25 mm	slab, mini-slab gel
Sealing tape	PA-680	yellow	40 mm	sequencer



- Slim type apparatus suitable for narrow laboratory space; external flow rate is variable

CRSFT-CIRCU, Model : **C-1**

- Slim type 20(w) × 37(depth) cm
- Suitable for electrophoresis and column chromatography
- Wide range of temperature control (-10°C to +80°C)

Specification	
Temperature control range	-10°C to +80°C
Accuracy	±0.2°C
Control method	PT100Ω/PID control
Circulation	Whirl pump 3 l/min, lift up 1m
Refrigerator	Air cool hermetic refrigerator
Heater	Pipe heater 500W
Circulation nozzle	Outer diameter 9φ
Bath size	120(W) × 220(D) × 140(H) 3.7liter
Effective bath size	117(W) × 95(D) × 110(H)
Safety device	Protective thermo mechanism
Power	AC 100V, 10A. 5/60 Hz
Size	200(W) × 370(D) × 520(H)
Weight	25 kg



C-1

ELECTROPHORESIS POWER SOURCE

REAL POWER 3000, Model : **BP-1**

Specification	
Maximum output	3000V/150mA
Constant voltage	0 to 3000V
Constant current	0 - 1500 mA
Display	digital LED display of voltage, current
Stability of output	within ±0.3% by load change
Function	constant voltage, constant current, parallel two output terminal, circuit protection buzzer, power leak shut-down
Size	190 × 230 × 340 mm



BP-1

REAL POWER, Model : **BP-3**

Specification	
Maximum output	1000V/250mA
Constant voltage	0 to 1000V
Constant current	0 - 1500 mA
Display	digital LED display of voltage, current
Stability of output	within ±0.3% by load change
Function	constant voltage, constant current, parallel two output terminal, over voltage/current protection safety circuit
Size	150 × 210 × 240 mm



BP-3

REAL POWER, Model : **BP-4**

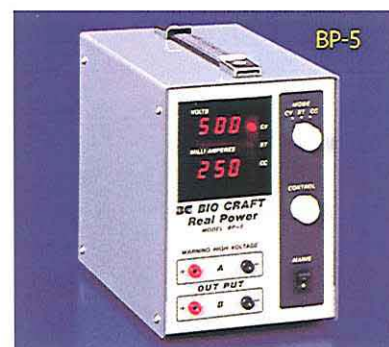
Specification	
Maximum output	500V/500mA
Constant voltage	0 to 500V
Constant current	0 - 500 mA
Display	digital LED display of voltage, current
Stability of output	within ±0.3% by load change
Function	constant voltage, constant current, parallel two output terminal, over voltage/current protection safety circuit
Size	150 × 210 × 240 mm



BP-4

REAL POWER, Model : BP-5

Specification	
Maximum output	500V/250mA
Constant voltage	0 to 500V
Constant current	0 - 250 mA
Display	digital LED display of voltage, current
Stability of output	within $\pm 0.3\%$ by load change
Function	constant voltage, constant current, parallel two output terminal, over voltage/current protection safety circuit
Size	150 × 210 × 240 mm



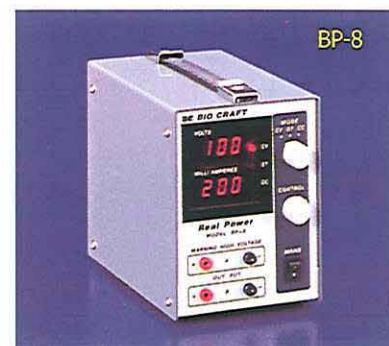
MINI-REAL POWER, Model : BP-6

Specification	
Maximum output	500V/100mA
Constant voltage	0 to 500V
Constant current	0 - 100 mA
Display	Digital LED display of voltage, current
Stability of output	Within $\pm 0.3\%$ by load change
Function	Constant voltage, constant current, parallel two output terminal, over voltage/current protection safety circuit
Size	130 × 170 × 210 mm



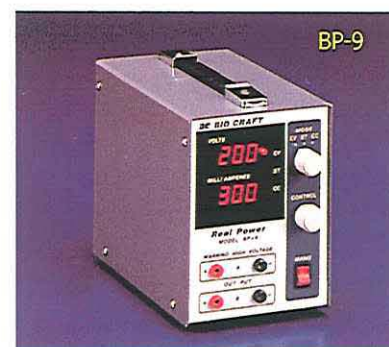
BLOT POWER, Model : BP-8

Specification	
Maximum output	100V/2A
Constant voltage	10 to 100V
Constant current	0 - 2A
Display	digital LED display of voltage, current
Function	constant voltage, constant current, parallel two output terminal, over voltage/current protection safety circuit
Size	130 × 170 × 210 mm



MINI-REAL POWER, Model : BP-9

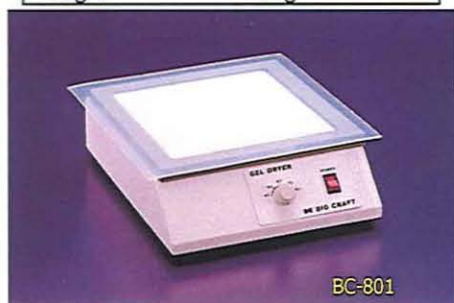
Specification	
Maximum output	200V/300mA
Constant voltage	0 to 200V
Constant current	0 - 300 mA
Display	digital LED display of voltage, current
Stability of output	within $\pm 0.3\%$ by load change
Function	constant voltage, constant current, parallel two output terminal, over voltage/current protection safety circuit
Size	130 × 170 × 210 mm



GEL DRYER, Model : BC-801

- For mini-gal, slab gel

Specification	
Effective gel size	200 × 200 cm
Setting temperature	40 - 80°C
Plate surface	
Teflon coating	
Size	250 × 250 × 80 mm
Weight	4.5 kg



BC-801

GEL DRYER, Model : BC-811

- For sequence gel

Specification	
Effective gel size	360 × 480 cm
Setting temperature	40 - 80°C
Plate surface	
Teflon coating	
Size	540 × 420 × 80 mm
Weight	9 kg

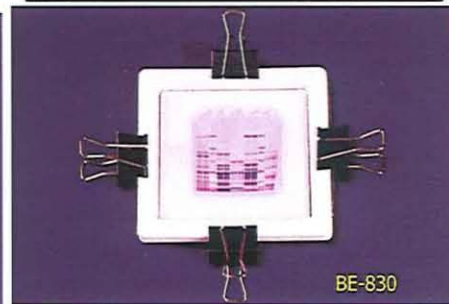


BC-811

GEL DRYER PLATE, Model : BE-830

- Spontaneous drying
- For mini-gel to slab gel

Contents of set	
Gel dryer plate	1 unit
Cellophane sheet (200 × 200 mm)	10 sheets
Clip	8 pieces



BE-830

Gel Dryer Parts

Name of product	No.
BC-801 silicone rubber	8001
BC-801 porous plate	8002
BC-811 silicone rubber	8003
BC-811 porous plate	8004
Gel dryer plate	PA-091
Cellophane sheet (200 × 200 mm) 100 sheets	C-9012
Clip 10 pieces	C-9013

- Rapid desalting of high concentration solution and small amount of samples with good handling for setting and sample recovery.

MICRO-DIALYZER, Model : BE-880

- 20 µl to 100 µl sample/1 capsule
- Simultaneous dialysis of 12 capsules

Contents of set	
Micro-dialysis bath	1 unit
Capsule	12 pieces
Capsule packing	12 pieces
Stirrer bar (triangle)	1 unit



BE-880

MICRO-DIALYZER, Model : BE-882

- 50 µl to 500 µl sample/1 capsule
- Simultaneous dialysis of 8 capsules

Contents of set	
Micro-dialysis bath	1 unit
Capsule	8 pieces
Capsule packing	8 pieces
Stirrer bar (triangle)	1 unit



BE-882

Name of product	No.
BE-880 micro-dialysis bath	PA-081
BE-880 capsule 12 pieces	8010
BE-880 capsule packing 12 pieces	8011
BE-880 stirrer bar (triangle)	8012
BE-882 micro-dialysis bath	PA-802
BE-882 capsule 8 pieces	8016
BE-882 capsule packing 8 pieces	8017
BE-882 stirrer bar (triangle)	8018

SENA GEL, Model : **SYN-100**

- Agarose gel reinforce agent
- High resolution of 50 to 200 bp DNA
- Highly transparent gel, clear photograph
- Tuff and soft; protect breakage of gel
- 1% SENa gel corresponds to 2% agarose
- only mix with agarose and boil



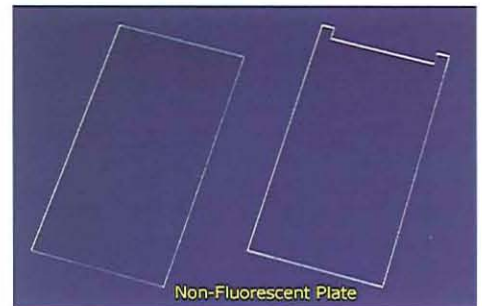
A: mini-gel of 1.5% SENa gel and 0.7% agarose
 B: minigel of 4.0% agarose
 Marker DNA: λ BstEII and pBR322
 Mpsi, 300 ng each

NON-FLUORESCENT PLATE

- Suitable for use for Fluorimager and STORM made by Molecular Dynamics Co.

Name of product	No.
Non-fluorescent plate (200 × 360 × 5 cm), cut	6080
Non-fluorescent plate (200 × 360 × 5 cm), flat	6081
Non-fluorescent plate (200 × 330 × 5 cm), cut	6082
Non-fluorescent plate (200 × 330 × 5 cm), flat	6083
Non-fluorescent plate (200 × 200 × 3 cm), flat	6084
Non-fluorescent plate (100 × 100 × 3 cm), flat	6085
Non-fluorescent plate (126 × 84 × 3 cm), flat (for micro-titer plate, 3 sheets)	6086

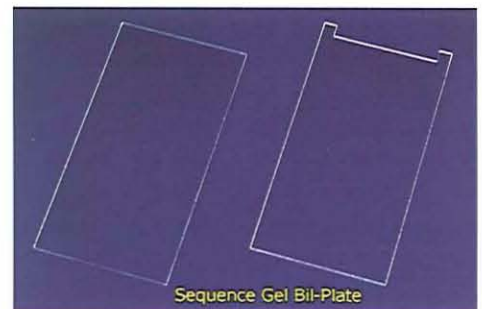
Plate sizes of non-fluorescent plates for the products other than the other companies above are available



SEQUENCE GEL BIO-PLATE

- Reinforced glass plate for sequence gel

Name of product	No.
Bio-plate (200 × 400 mm, cut)	6070
Bio-plate (200 × 400 mm, flat)	6071
Bio-plate (200 × 475 mm, cut)	6072
Bio-plate (200 × 475 mm, flat)	6073
Bio-plate (300 × 400 mm, cut)	6074
Bio-plate (300 × 400 mm, flat)	6075
Bio-plate (300 × 475 mm, cut)	6076
Bio-plate (300 × 475 mm, flat)	6077



MINI-SLAB PLATE STORAGE RACK, Model : **BE-001**

- for storage of 10 sheets of mini-plates
- compact design for the convenience of storage
- plates available for storage

Mini-slab plate	106(w) × 80(H)	10 sheets
	106(w) × 100(H)	10 sheets



SLAB, WIDE MINI-SLAB PLATE STORAGE RACK

Model : **BE-002**

- for storage of 10 sheets of mini-plates
- for storage of 10 sheets of wide-mini plates
- plates available for storage

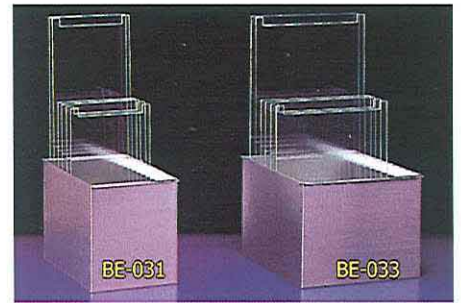
Mini-slab plate	160(w) × 160(H)	10 sheets
Wide mini-slab plate	160(w) × 100(H)	10 sheets



SEQUENCE PLATE STORAGE RACK

Model : **BE-031** (200 mm W), Model : **BE-033** (300 mm W)

- For storage of 10 sheets of sequence electrophoresis plates
- For 200 mm and 300 mm width plates



SEQUENCE PLATE STORAGE RACK, Model : **BE-034**

- for storage of 10 sheets of ABI plates



ELECTROPHORESIS POWER SOURCE TAP

- available for high voltage and low voltage sequence electrophoresis or submarine electrophoresis
- applicable to 4 units of electrophoresis baths by one unit of the power source tap



Name of product	No.
High voltage tap (3000V or less)	6090
Low voltage tap (1000V or less)	6091

MINI-DISK ROTOR, Model : **BC-710**, **BC-710 I**

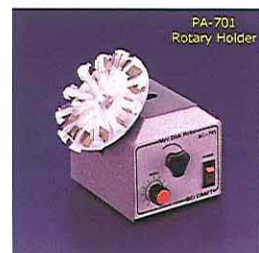
- for DNA extraction, cultivation and coupling of affinity gel
- ultra-mini design, simultaneous setting of two kinds of rotary holders is possible
- usable in refrigerator or incubator; space saving and convenience of practical use



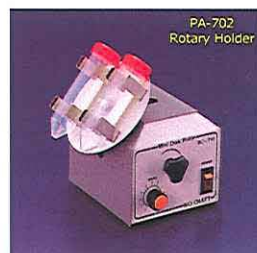
Specification	
BC-710 (Low speed)	Rotation speed : 1 - 20 rpm Variable angle : 0 - 90° (horizontal - vertical) Size : 120(W) × 150(D) × 165 (H) mm Weight : 2 kg

Specification	
BC-710 I (High speed)	Rotation speed : 3 - 60 rpm Variable angle : 0 - 90° (horizontal - vertical) Size : 120(W) × 150(D) × 165 (H) mm Weight : 2 kg

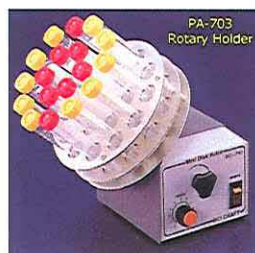
ROTARY HOLDERS - SPECIFICATION



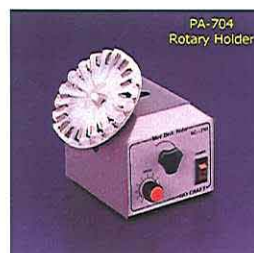
PA-701 12 tubes
(1.5 ml)



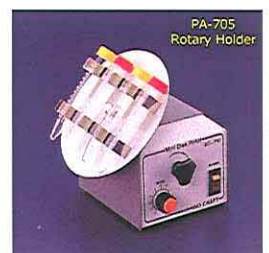
PA-702 2 tubes (50 ml)



PA-703 Test tube rotation
cultivation, O.D 12 φ tubes
~ 18 φ mm (free size)



PA-704 20 tubes
(1.5 ml)



PA-705 4 tubes (15 ml)

SEESAW SHAKER, Model : **BC-700**

- Soft shaking suitable for de-coloring of electrophoresis gel
- Heat resistance at 65°C for hybridization
- Ultra-low speed rotation suitable for antigen-antibody reaction and cultivation
- High-torque function for 10 kgs load
- Three-stage switching of shaking amplitude of the table

Specification	
Up-down frequency	3 to 30 times (reciprocation/min)
Amplitude	30, 40, 60 mm
Table size	215 × 315 mm
External size	320 × 240 × 170 mm
Weight	4 kg



WAVE SHAKER, Model : **BC-720**

- Multi-purpose shaker by three dimensional driving
- Solution is reliably shaken by inclination of table
- Table inclination angle is variable by one touch
- Compatible for soft-hard shaking by speed control
- Heat resistance at 65°C for use in incubator

Specification	
Inclination frequency	4 to 40 times/min
Inclination angle	20°/horizontal
Load	3 kg
Table size	215 × 315 mm
External size	320 × 240 × 170 mm
Weight	4 kg



LABO-SHAKER

- Suitable for de-staining, antibody-antigen reaction by blotting and cultivation with good shaking efficiency
- Reciprocating type and rotary type

LABO-SHAKER, Model : **BC-730**

- Reciprocating type

Specification	
shaking frequency	14 to 140 times/min (reciprocate)
Table size	215 × 315 mm
External size	320 × 230 × 125 mm
Load	3 kg
Weight	4 kg



LABO-SHAKER, Model : **BC-740**

- Rotary type

Specification	
shaking frequency	14 to 140 (reciprocate/min)
Table size	215 × 315 mm
External size	320 × 240 × 125 mm
Load	3 kg
Weight	4 kg

