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SUBMARINER

Gel size: 23 (w) x 5, 10, 15, 20#, 25 (l) cm

For DNA and protein separation

SUBMARINER-R

Gel size: 23 (w) x 5, 10, 15, 20#, 25 (l) cm For RNA, DNA and protein separation

System has higher resistance to cleaning agents



Gel size: 23 (w) x 5, 10, 15, 20*, 25 (l) cm For RNA, DNA and protein separation

System has higher resistance to cleaning agents with ports for

cooling and buffer solution



Submariner (representational image)

SUBMARINER-Mini

Gel size: 23 (w) x 5, 10, 15# (l) cm For RNA, DNA and protein separation

- ✓ UV-transparent tray with gel gripping design
- ✓ Uni-directional migration
- ✓ Comb with teeth spacing compatible with multi-channel micropipettes available
- √ No. of samples (standard): [1-70] x 11 combs
- √ No. of samples (mini): [1-70] x 6 combs
- ✓ Buffer requirement: 1800 mL (standard), 1000 mL (mini)

#gel size with ready-to-use system

Features of this apparatus

Leak-Proof

- Buffer does not leak through plastic joints as bonding is done with special glues manufactured inhouse
- Crazing of plastic minimized as high quality plastic tolerates short exposure to cleaning reagents used in RNA analysis

Rugged

- Electrodes do not break as they are thick and platinum is >99.9% pure
- No electrolytic corrosion of male connector as base is resin filled
- Metal screws on comb-stands that do not break with extensive usage

Error Minimization

- Wells do not break as comb-stand will not move sideways during comb removal
- Samples migrate correctly due to unidirectional migration feature & colour coding
- Sample migration is straight as combstand & tray are aligned & locked in place

Sensitivity & Resolution

- UV-transparent tray has more than 95% UV transparency and gives enhanced sensitivity of DNA detection
- Improved band resolution as wells can be cast near the starting edge for longer running length

Economical

- Run greater number of samples using two/ four combs per tray
- Can be run higher at higher voltages for quicker runs and hence faster turnaround time
- Saves reagent & operator cost as leakage and errors are prevented



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SUGGESTION

Order along with ready-to-use system

Extra Comb stands (17-07171), Gel-casting chamber (17-25252), Extra combs, Extra trays

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<u> </u>	Ready-to-use system includes	17-00232	17-00235	17-00236	17-00233	
		For DNA & protein	For DNA, RNA & protein	For DNA, RNA & protein with cooling	For DNA, RNA & protein	
1.	Tank with electrodes and male connectors mounted at an angle	Υ	Υ	Υ	Υ	
2.	UV-transparent tray with gel gripping design, 23 (w) x 20 (l) cm	Υ	Υ	Υ	-	
3.	UV-transparent tray with gel gripping design, 23 (w) x 15 (l) cm	-	-	-	Υ	
4.	Comb stand with positioning pins and metal screws for adjusting comb height	Υ	Υ	Υ	Υ	
5.	PMMA comb (54 wells, 1.5 mm thick)	Υ	Υ	Υ	Υ	
6.	Gel slicer	Υ	Υ	Υ	Υ	
7.	Niche cleaner	Υ	Υ	Υ	Υ	
8.	Lid	Υ	Υ	Υ	Υ	
9.	Electrical cords with male & female connectors designed for user safety (one pair)	Υ	Υ	Υ	Υ	

Ordering description

10. Instruction manual

Submariner (17-00232): Horizontal apparatus for nucleic acid and protein separations: fabricated to tolerate cleaning reagents used in RNA analysis, with gel gripping UV-transparent tray, male connectors mounted at an angle and uni-directional migration, gel size 23 (w) x 25 (l) cm.

Submariner-R (17-00235): Horizontal apparatus for nucleic acid and protein separations: fabricated to tolerate cleaning reagents used in RNA analysis, with gel

gripping UV-transparent tray, male connectors mounted at an angle and uni-directional migration, gel size 23 (w) x 25 (l) cm.

Submariner-RC (17-00236): Horizontal apparatus for nucleic acid and protein separations: fabricated to tolerate cleaning reagents used in RNA analysis, with gel gripping UV-transparent tray, male connectors mounted at an angle and uni-directional migration, ports for cooling and buffer circulation, gel size 23 (w) x 25 (l) cm.

Submariner-mini (17-00233): Horizontal apparatus for nucleic acid and protein separations: fabricated to tolerate cleaning reagents used in RNA analysis, with gel gripping UV-transparent tray, male connectors mounted at an angle and uni-directional migration, ports for cooling and buffer circulation, gel size 23 (w) x 15 (l) cm.

Submariner and its spares and accessories

Item Description	Cat. No.	Unit
Submariner, ready-to-use system	17-00232	System
Submariner-R, ready-to-use system	17-00235	System
Submariner-RC, ready-to-use system	17-00236	System
Submariner-mini, ready-to-use system	17-00233	System
UV-opaque tray [gel size 23 (w) x 5 (l) cm]	17-02051	Piece
UV-transparent tray of gel gripping design [gel size 23 (w) x 5 (l) cm]	17-02052	Piece
UV-opaque tray [gel size 23 (w) x 10 (l) cm]	17-02101	Piece
UV-transparent tray of gel gripping design [gel size 23 (w) x 10 (l) cm]	17-02102	Piece
UV-opaque tray [gel size 23 (w) x 15 (l) cm]	17-02151	Piece
UV-transparent tray of gel gripping design [gel size 23 (w) x 15 (l) cm]	17-02152	Piece
UV-opaque tray [gel size 23 (w) x 20 (l) cm]	17-02201	Piece
UV-transparent tray of gel gripping design [gel size 23 (w) x 20 (l) cm]	17-02202	Piece
Comb stand with positioning pins and metal screws for adjusting comb height	17-07171	Piece
Comb 1 mm thick , PMMA, 17 wells/228 mm	17-09171	Piece
Comb 1.5 mm thick , PMMA, 17 wells/ 228 mm	17-09172	Piece
Comb 2 mm thick , PMMA, 17 wells/ 228 mm	17-09173	Piece
Comb 1 mm thick , multichannel pipette compatible, PMMA, 26 wells/228 mm	17-09261	Piece
Comb 1.5 mm thick , multichannel pipette compatible, PMMA, 26 wells/228 mm	17-09262	Piece
Comb 2 mm thick , multichannel pipette compatible, PMMA, 26 wells/228 mm	17-09263	Piece
Comb 1 mm thick , PMMA, 37 wells/228 mm	17-09371	Piece
Comb 1.5 mm thick , PMMA, 37 wells/ 228 mm	17-09372	Piece
Comb 2 mm thick , PMMA, 37 wells/ 228 mm	17-09373	Piece
Comb 1 mm thick , PMMA, 40 wells/228 mm	17-09401	Piece
Comb 1.5 mm thick , PMMA, 40 wells/ 228 mm	17-09402	Piece
Comb 2 mm thick , PMMA, 40 wells/ 228 mm	17-09403	Piece



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Item Description	Cat. No.	Unit
Comb 1 mm thick, multichannel pipette compatible, PMMA, 50 wells/228 mm	17-09501	Piece
Comb 1.5 mm thick, multichannel pipette compatible, PMMA, 50 wells/228 mm	17-09502	Piece
Comb 2 mm thick, multichannel pipette compatible, PMMA, 50 wells/228 mm	17-09503	Piece
Comb 1 mm thick, PMMA, 70 wells/228 mm	17-09701	Piece
Comb 1.5 mm thick , PMMA, 70 wells/ 228 mm	17-09702	Piece
Comb 2 mm thick , PMMA, 70 wells/ 228 mm	17-09703	Piece
Comb, preparative 2 mm thick, PMMA, 1 + 1 wells/ 228 mm	17-PS101	Piece
Comb, preparative 2 mm thick, PMMA, 1 + 2 wells, ladder in the centre/ 228 mm	17-PM102	Piece
Comb, preparative 2 mm thick, PMMA, 1 + 2 wells, ladder at the end/ 228 mm	17-PS102	Piece
Comb, preparative 2 mm thick, PMMA, 2 + 2 wells, ladder at both the ends/ 228 mm	17-PS202	Piece
Comb, preparative 2 mm thick, PMMA, 1 + 4 wells, ladder in the centre/ 228 mm	17-PM104	Piece
Comb, preparative 2 mm thick, PMMA, 1 + 4 wells, ladder at the end/ 228 mm	17-PS104	Piece
Comb, preparative 2 mm thick, PMMA, 2 + 4 wells, ladder at both the ends/ 228 mm	17-PS204	Piece
Comb, preparative 2 mm thick, PMMA, 1 + 6 wells, ladder in the centre/ 228 mm	17-PM106	Piece
Comb, preparative 2 mm thick, PMMA, 1 + 6 wells, ladder at the end/ 228 mm	17-PS106	Piece
Comb, preparative 2 mm thick, PMMA, 2 + 6 wells, ladder at both the ends/ 228 mm	17-PS206	Piece
Comb, preparative 2 mm thick, PMMA, 1 + 8 wells, ladder in the centre/ 228 mm	17-PM108	Piece
Comb, preparative 2 mm thick, PMMA, 1 + 8 wells, ladder at the end/ 228 mm	17-PS108	Piece
Comb, preparative 2 mm thick, PMMA, 2 + 8 wells, ladder at both the ends/ 228 mm	17-PS208	Piece
Comb, preparative 2 mm thick, PMMA, 1 + 10 wells, ladder in the centre/ 228 mm	17-PM110	Piece
Comb, preparative 2 mm thick, PMMA, 1 + 10 wells, ladder at the end/ 228 mm	17-PS110	Piece
Comb, preparative 2 mm thick, PMMA, 2 + 10 wells, ladder at both the ends/ 228 mm	17-PS210	Piece
Gel casting chamber for tray 23 cm (w) and varying length up to 25 cm	17-25252	Piece
Screws for gel casting chamber (2 No.)	17-26088	Packet
Gel slicer, breakage resistant, 22.5 (w) x 25 (l) cm	63-05270	Piece
Niche cleaner	64-06075	Piece
Electrical cords with male & female connectors designed for user safety	66-40124	Pair
Penta-legged levelling table (28 x 45 cm) with spirit-level	69-41459	Set
Submariner tank. Replacement part for horizontal apparatus for DNA and protein separations	17-01232	Piece
Submariner-R tank. Replacement part for horizontal apparatus for nucleic acid and protein	17-01235	Piece
separations, fabricate to tolerate cleaning reagents used in RNA analysis	17-01233	1 1000
Submariner-RC tank. Replacement part for horizontal apparatus for nucleic acid and protein		
separations, fabricate to tolerate cleaning reagents used in RNA analysis, with ports for buffer	17-01236	Piece
circulation and cooling of gel for fast electrophoresis		
Submariner-mini tank. Replacement part for horizontal apparatus for DNA and protein	17-01233	Piece
separations		
Submariner lid. Replacement part for horizontal apparatus for DNA and protein separation	17-12320	Piece
Submariner-mini lid. Replacement part for horizontal apparatus for DNA and protein separation	17-12321	Piece