

Verti-Gel Mini System

Typical Applications:

Mini SDS PAGE, native PAGE, gradient, second dimension & nucleic acid separations

- Injection moulded construction, durable & leakproof
- Compatible with all 80mm x 100mm and 100mm x 100mm precast gels
- Rapid gel casting and loading
- Low buffer volumes
- Rapid set up cooling
- Run up to four gels
- Interchangeable modules for IEF/2D electrophoresis and electroblotting in a universal tank



Technical Specification

Number of gels	1 to 4
Precast gel compatibility (Up to two gels/run)	IDGel™, Novex™, SERVAGel™ Thermo Precise Pierce Protein Gel Handcast gels
(Up to four gels/run).....	Using 100mm x 100mm glass plates
Plate dimensions (w x h x t), mm.....	100 x 100 x 20
Gel dimensions (w x h), mm.....	80 x 85
Total buffer volume for two gels, mL.....	Min: 250; Max: 1,200
Total buffer volume for four gels, mL	Min: 250; Max: 1,200
Standard run time for SDS-PAGE	1 to 2 hours
Recommended power supplies	12613546 (page 47)
Unit dimensions (w x d x h), mm.....	190 x 130 x 150
Mass, kg	1.8

The Fisherbrand Verti-Gel Mini units are available in two different formats, the two gel system which can accommodate up to two handcast or commercial precast gels (also referred to as the Standard System), or the four gel system which is equipped with enough glass plates and combs to run four gels (also referred to as the Tetrad System). This flexibility of formats, together with the unique sliding clamp technology within the PAGE insert, permits fast, intuitive leak free casting.

Use Verti-Gel Mini vertical systems to:

- Run a maximum of four gels within an hour
- Perform 2D and blotting within a day
- Undertake discovery projects
- Screen new samples and evaluate sample preparation conditions

Loading and running innovations

- Reversible combs also serving as loading indicators aid pipettor-well alignment, preventing sample loading errors – simply insert your comb into a freshly poured gel which is allowed to set before inverting the comb to use a loading template that sits conveniently above the newly formed sample wells
- Run up to four gels in a single PAGE module using a combination of plain and notched glass plates with spacers in between corresponding to your chosen gel thickness

Optional blotting insert

The Verti-Gel Mini blotting insert uses the same tank and lid to adapt your Verti-Gel Standard or Tetrad system for fast, high quality electroblotting of mini gels. Able to transfer four gels at a time, the Verti-Gel Mini blotting insert is available in the traditional wire electrode format. This insert is available as a stand-alone add-on (Cat. No 11837623) to the Verti-Gel Mini system or as part of a fully integrated system for multiple electrophoresis techniques (Cat. No 11883293).

Optional 2D insert

The Verti-Gel Mini capillary tube gel insert may be used with the same tank and lid to adapt your Verti-Gel Mini Standard or Tetrad system for reproducible 2D electrophoresis. IEF of up to 10 capillary tube gels may be achieved in as little as 3.5 hours, while second dimension PAGE takes no more than an hour. Available as a standalone add-on (11867623).



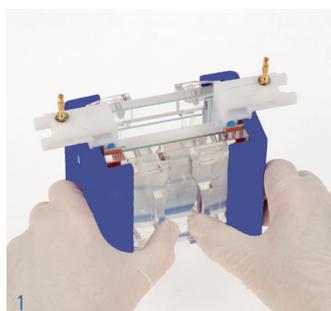
Cat. No 11837623



Cat. No 11867623

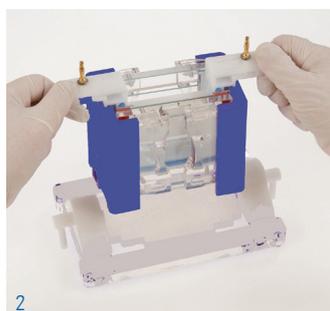
Cast and Run with Verti-Gel Mini Sliding Clamp Technology

- The unique sliding clamp technology of the Verti-Gel Mini insert ensures simple, rapid, leak proof gel casting in four easy steps (see below).
- Flat, ultra soft moulded gasket acts in tandem with a unique single piece pressure-clamping frame to facilitate even pressure distribution to minimise gel compression; gasket reversible for Bio-Rad compatibility.
- Spacers are colour coded with compatible comb thickness and are bonded to 2mm thick ground glass plates to guarantee correct alignment and leak free casting, whereas notched glass plates with bonded spacer option, included with the four gel system, doubles gel capacity of the PAGE insert; optional dummy plate allows for single gels to be run.



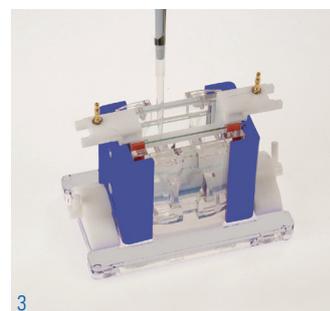
Insert glass plates into PAGE insert and slide clamps into side cheeks to create an effective seal to prevent current leakage during electrophoresis.

Benefit: PAGE insert is used for both gel casting and running which unlike other leading brands, eliminates time-consuming transfer of potentially fragile glass plates between separate casting and running modules.

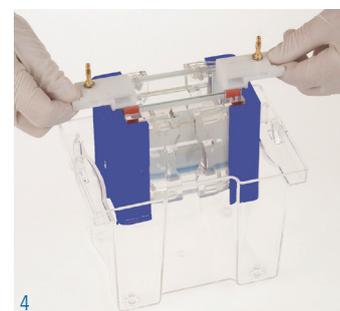


Transfer PAGE insert to casting base, insert cams and turn until tightened.

Benefit: Ultra soft gasket within casting base compensates for plate misalignment to prevent leakage.



Pour in gel solution, insert comb and allow to polymerise.



Transfer PAGE insert to tank, fill with buffer, load samples, replace lid and run.

Verti-Gel Mini, 2 - Gel System (Standard)

- Injection moulded construction, durable and leak proof
- Compatible with all 80mm x 100mm and 100mm x 100mm precast gels
- Low buffer volumes
- Run up to two gels
- Interchangeable modules for IEF/2D electrophoresis and electroblotting in a universal tank

Cat. No	Description
11843293	Verti-Gel Mini 100mm x 100mm including caster (for handcast gels)
11893293	Verti-Gel Mini 100mm x 100mm, no caster (for pre-cast gels)
11883293	Complete system for Verti-Gel Mini vertical (100mm x 100mm) electrophoresis and blotting



Verti-Gel Mini, 4 - Gel System (Tetrad)

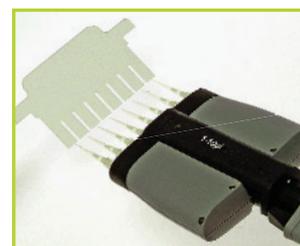
- Injection moulded construction, durable and leak proof
- Compatible with all 80mm x 100mm and 100mm x 100mm precast gels
- Low buffer volumes
- Run up to four gels
- Interchangeable modules for IEF/2D electrophoresis and electroblotting in a universal tank

Cat. No	Description
15136624	Verti-Gel Mini Tetrad PAGE system with sliding clamps 100mm x 100mm, caster & external stand, 4x notched/plain plates with 0.75mm bonded spacers, 4x notched plates, 4x 12 well 0.75mm combs
15116624	Verti-Gel Mini Tetrad PAGE system with sliding clamps 100mm x 100mm, caster & external stand, 4x notched/plain plates with 1mm bonded spacers, 4x notched plates, 4x 12 well 1mm combs
15146624	Verti-Gel Mini Tetrad PAGE system with sliding clamps 100mm x 100mm, caster & external stand, 4x notched/plain plates with 1.5mm bonded spacers, 4x notched plates, 4x 12 well 1.5mm combs
15156624	Verti-Gel Mini Tetrad PAGE system with blotting module 100 x 100mm, caster & external stand, 4x notched/plain plates with 0.75mm spacer, 4x plate, 4x 12 well 0.75mm comb, 4x cassette, 8x pad
15126624	Verti-Gel Mini Tetrad PAGE system with blotting module 100 x 100mm, caster & external stand 4x notched/plain plates with 1mm spacer, 4x plate, 4x 12 well 1mm comb, 4x cassette, 8x pad
15176624	Verti-Gel Mini Tetrad PAGE system with blotting module 100 x 100mm, caster & external stand, 4x notched/plain plates with 1.5mm spacer, 4x plate, 4x 12 well 1.5mm comb, 4x cassette, 8x pad

Combs & Accessories

Extensive range of combs

- Options for sample prep
- Options for multi-channel pipettor compatible
- The number of samples can be maximised using high tooth number combs
- Four thicknesses, colour coded:
 - **black** 0.75mm for ultra resolved bands
 - **white** 1mm supplied as standard
 - **red** 1.5mm for maximising sample volume
 - **blue** 2mm for maximising sample volume



Combs	Thickness 0.50mm		Thickness 0.75mm		Thickness 1.0mm		Thickness 1.5mm		Thickness 2.0mm	
	Cat. No	Sample size, μL	Cat. No	Sample size, μL	Cat. No	Sample size, μL	Cat. No	Sample size, μL	Cat. No	Sample size, μL
1 prep, 1 marker	11837583	330	11847583	500	11807593	650	11817593	1,000	11827593	1,300
5 sample,	11887603	45	11897603	70	11807613	100	11817613	140	11827613	200
8 sample MC	11837613	25	11847613	40	11857613	60	11867613	80	11877613	120
9 sample	11887613	23	11897613	35	11807623	50	11817623	70	11827623	100
10 sample	11857583	20	11867583	30	11877583	40	11887583	60	11897583	80
12 sample	11837593	16	11847593	25	11857593	35	11867593	50	11877593	70
16 sample MC	11887593	13	11897593	20	11807603	25	11817603	40	11827603	50
20 sample	11837603	10	11847603	15	11857603	20	11867603	30	11877603	40

Accessories

Cat. No	Description	Pack qty
Accessories - General		
11847623	100mm x 100mm casting base	1
11857623	Replacement silicone mat for 100mm x 100mm casting base	1
11853293	Inner running module sliding clamps	1
11887623	Mini cooling pack	1
11887633	Notched glass plates 100mm x 100mm	2
11847643	Plain glass plates 100mm x 100mm	2
11857643	Plain glass plates 100mm x 100mm with 0.5mm bonded spacers	2
11897633	Notched glass plates 100mm x 100mm with 0.5mm bonded spacers	2
11807643	100mm x 100mm notched glass plates with 0.75mm bonded spacers	2
11867643	100mm x 100mm plain glass plates with 0.75mm bonded spacers	2
11817643	100mm x 100mm notched glass plates with 1mm bonded spacers	2
11877643	100mm x 100mm plain glass plates with 1mm bonded spacers	2
11827643	100mm x 100mm notched glass plates with 1.5mm bonded spacers	2
11887643	100mm x 100mm plain glass plates with 1.5mm bonded spacers	2
11837643	100mm x 100mm notched glass plates with 2mm bonded spacers	2
11897643	100mm x 100mm plain glass plates with 2mm bonded spacers	2
11877623	Dummy plate 100mm x 100mm	1
11807653	Spacers 10mm x 100mm 0.5mm thick	2
11817653	Spacers 10mm x 100mm 0.75mm thick	2
11827653	Spacers 10mm x 100mm 1mm thick	2
11837653	Spacers 10mm x 100mm 1.5mm thick	2
11847653	Spacers 10mm x 100mm 2mm thick	2
11817583	Replacement platinum wire - 500mm x 0.2mm	1
11863293	Caster stand	1
Accessories - Blotting		
11837623	Mini blotting module	1
11827583	Verti-Gel blot mini cassette	1
11857653	Fibre pad for blotting 100mm x 100mm gels	1
Accessories - 2D Electrophoresis		
11867623	Mini IEF module	1
11877653	Capillary tube 75mm long, 1mm I.D.	1
11867653	Blanking ports	1

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