# **Vertical Gel Units**

### **BENEFITS INCLUDE**

- Twin-plate 10 x 10cm mini-gel unit a simple cost-effective solution for PAGE techniques using either self-cast or precast gels
- Two versions available: -

Standard TV100 - non-cooled

Cooled TV100K - a cooling coil in the bottom of the gel tank for faster higher voltage electrophoretic separations

- Enhanced cooling in the TV100K snap-lock connectors allow the TV100K to be connected to the JULABO chiller unit
- **Compatible** with commercially available 10 x 10cm precast gels



- SERVA precast gels available especially for the TV100-GRM (see page 141)
- Optional TV100-SGB silicone gasket allows the GRM to be adapted for the 'non-eared' or short glass plates of major alternative brands
- **Gel casting -** either with tape or the optional TV100-CB casting base or TV100-MC2 and TV100-MC10 2 and 10 gel multicasters
- Float glass plates 2mm thick guarantee uniform gel thickness and even sample migration, and with ground edges to inhibit sample leakage during casting
- **Single screws** at either side each gelclamping plate - act in conjunction with a counterbalanced, dovetailed silicone gasket to disperse pressure evenly along the height and breadth of the gel as the screws are tightened
- Low buffer volumes within the inner chamber of the GRM and gel tank economises buffer consumption
- **Colour-coded combs and spacers** available in 0.75, 1, 1.5 and 2mm thicknesses
- Smaller footprint area occupies minimal bench space



TV100 - non-cooled

# TV100 Standard &TV100K Cooled Twin-Plate Mini-Gel Electrophoresis Units

The TV100 and TV100K twin-plate 10 x 10cm (W x H) mini-gel units are ideal cost-effective solutions for standard PAGE applications, using self-cast or commercially available precast gels.

## TECHNICAL SPECIFICATION

	TV100		TV100K		
Unit Dimensions (W x D x H)	20 x 15 x 14cm		28 x 15 x 18cm		
Inner Tank Dimensions (W x D x H)	16.5 x 11 x 11.5c	m	16.5 x 11 x 15cm		
Plate Dimensions (W x H x T)	10 x 10 x 0.2cm		10 x 10 x 0.2cm		
Standard Spacer Dimensions (W x H x T)	1 x 10 x 0.1cm		1 x 10 x 0.1cm		
Active Gel Dimensions (W x H)	8 x 8.5cm		8 x 8.5cm		
Maximum Sample Capacity	2 x 20		2 x 20		
Recommended Buffer Volume	Inner Buffer Chamber	90ml	Inner Buffer Chamber	90ml	
	Gel Tank	1200ml	Gel Tank	1600ml	
Recommended Running Conditions for Denaturing/Native PAGE Gel	Voltage (5	50 - 100V 5 - 10V/cm)	Voltage (1	100 - 150V 0 - 15V/cm)	
	Current	5 - 10mA	Current	10 - 15mA	
	Time	1.5 - 2.5h	Time	1 - 1.75h	
Snap-lock Connectors for Cooling Coil	Inner Diameter	n/a	Inner Diameter	10mm	
	Outer Diameter	n/a	Outer Diameter	12mm	
Quick-fit Tubing	Inner Diameter	n/a	Inner Diameter	10mm	
	Outer Diameter	n/a	Outer Diameter	12mm	
Power Output Connectors (diameter)	Shrouded, 4mm		Shrouded, 4mm		
Recommended Power Supplies	Consort EV243		Consort EV243		





TV100Y - non-cooled + casting

# TV100Y Standard &TV100YK Cooled Twin-Plate Mini-Gel Electrophoresis Units

The TV100Y and TV100YK twin-plate 10 x 10cm (W x H) mini-gel units are ideal for standard PAGE applications requiring self-cast gels. Soft silicone gaskets in a precision engineered casting base, included as standard with each unit, act in tandem with our newly modified GRM to provide simple, leak-free gel casting and assembly.

TECHNICAL SPECIFICATION					
	TV100Y		TV100YK		
Unit Dimensions (W x D x H)	20 x 15 x 14cm		28 x 15 x 18cm		
Inner Tank Dimensions (W x D x H)	16.5 x 11 x 11.5cr	n	16.5 x 11 x 15cm		
Plate Dimensions (W x H x T)	10 x 10 x 0.2cm		10 x 10 x 0.2cm		
Standard Spacer Dimensions (W x H x T)	1 x 10 x 0.1cm		1 x 10 x 0.1cm		
Active Gel Dimensions (W x H)	8 x 8.5cm		8 x 8.5cm		
Maximum Sample Capacity	2 x 20		2 x 20		
Recommended Buffer Volume	Inner Buffer Chamber 90ml		Inner Buffer Chamber 90ml		
	Gel Tank	1200ml	Gel Tank	1600ml	
Recommended Running Conditions for Denaturing/Native PAGE Gel	Voltage (	50 - 100V 5 - 10V/cm)	Voltage (	100 - 150V 10 - 15V/cm)	
	Current	5 - 10mA	Current	10 - 15mA	
	Time	1.5 - 2.5h	Time	1 - 1.75h	
Snap-lock Connectors for Cooling Coil	Inner Diameter	n/a	Inner Diameter	10mm	
	Outer Diameter	n/a	Outer Diameter	12mm	
Quick-fit Tubing	Inner Diameter	n/a	Inner Diameter	10mm	
	Outer Diameter	n/a	Outer Diameter	12mm	
Casting Base Silicone Seal Dimensions (W x L x H)	1.5 x 11 x 0.8cm		1.5 x 11 x 0.8cm		
Power Output Connectors (diameter)	Shrouded, 4mm		Shrouded, 4mm		
Recommended Power Supplies	Consort EV243		Consort EV243		

## **BENEFITS INCLUDE**

- Twin-plate 10 x 10cm mini-gel unit designed specifically for PAGE techniques requiring self-cast gels, although precast gels may also be used
- **Casting base -** included as standard with both units
- Two versions available: -
  - Standard TV100Y non-cooled + casting
  - Cooled TV100YK cooled + casting
- **Glass plate stops -** within the newly modified GRM - lock the glass plates firmly into position onto soft silicone gaskets in the casting base to ensure leak-free gelcasting
- **Enhanced cooling** in the TV100YK snaplock connectors allow the cooling coil to be connected to the JULABO chiller unit for faster, higher voltage separations
- Compatible with

commercially available 10 x 10cm precast gels, with SERVA precast gels available through Scie-Plas for the TV100-GRM (see page 141)



- Additional gel casting with the optional TV100-MC2 and TV100-MC10 2 and 10 gel multicasters
- Float glass plates 2mm thick guarantee uniform gel thickness and even sample migration, and with ground edges to inhibit sample leakage during casting
- **Single screws** at either side each gelclamping plate - act in conjunction with a counterbalanced, dovetailed silicone gasket to disperse pressure evenly along the height and breadth of the gel as the screws are tightened
- Low buffer volumes within the inner chamber of the GRM and gel tank economises buffer consumption
- **Colour-coded combs and spacers** available in 0.75, 1, 1.5 and 2mm thicknesses
- Smaller footprint area occupies minimal bench space

# **Vertical Gel Units**

## **CASTING WITH NEW-STYLE GRM**



 Place each plain glass plate on a level bench surface, followed by the spacers and then the notched glass plate



 Lower the assembled GRM onto the casting base with the cam pins pointing downwards into the bench surface



 Turn the cam pins through 120° to secure the GRM onto the casting base - as you turn the cam pins you will experience increased resistance



7. Carefully insert the appropriate comb allowing the gel to set for at least 30 minutes



 After carefully removing the combs, release the GRM by turning the cam pins in the opposite direction on the casting base



 Insert the glass plate cassette into the gel-running module (GRM), placed on its side on the bench, and lightly tighten the screws

 repeat for the other cassette by turning the GRM on its other side



3. If not using plain glass plates with bonded spacers, get a spacer aligner to align the spacers flush with the vertical edges of the plain glass plates before tightening the screws within the GRM



4. Run your forefinger along the bottom edge of the glass plates to ensure that they are flush with bottom edge of each spacer - if not, repeat step 3

**Glass plate stops** - serve as an immoveable barrier, locking the glass plates firmly into position on the casting base

#### Single screws -

act, as they are tightened, with a silicone dovetailed gasket to apply an even pressure across the height and breadth of the gel that prevents the inner gel chamber from leaking

#### Casting base -

re-engineered with deeper recesses to accommodate soft silicone seals which sit flush with the bottom of each glass plate

> **Silicone seals** - form a leak-free seal as the glass plates are dragged onto the casting base

**Cam pins** - turned clockwise to drag the glass plates firmly onto the silicone seals within the casting base



9. Place the GRM into the gel tank, ensuring that there is sufficient buffer to cover the bottom of the glass plates



 Fill the inner buffer chamber within the GRM so that it just covers the top of the gel - the gel is now ready to be loaded



 Replace the lid and insert the power cables into the power supply, making sure that it is first switched off - the unit is now ready for electrophoresis

Complete System       Part No.         Twin-plate mini-gel unit with GRM and gel tank, lid,       Image: System       Image: System         2 x spacer aligners, 2 x (10 x 10cm) notched glass plates,       TV100         Twin-plate mini-gel unit with GRM and cooled gel tank,       Image: System       TV100         Twin-plate mini-gel unit with GRM and cooled gel tank,       Image: System       TV100         Twin-plate mini-gel unit with GRM and gel tank, lid, 2 x (10 x 10cm;       Image: System       TV100K         System aligners, 2 x (10 x 10cm) notched glass plates,       TV100K       TV100K         Fwin-plate mini-gel unit with GRM and gel tank, lid, 2 x (10 x 10cm;       Image: System       TV100K         Fwin-plate mini-gel unit with GRM and cooled gel tank,       TV100Y       TV100Y         Fwin-plate mini-gel unit with GRM and cooled gel tank,       TV100Y       TV100Y         Fwin-plate mini-gel unit with GRM and cooled gel tank,       TV100Y       TV100Y         Fwin-plate mini-gel unit with GRM and cooled gel tank,       TV100Y       TV100Y         Fwin-plate mini-gel unit with GRM and cooled gel tank,       TV100Y       TV100Y         Fwin-plate mini-gel unit with GRM and cooled gel tank,       TV100Y       TV100Y         Fwin-plate mini-gel unit with GRM and cooled gel tank,       TV100Y       TV100Y         Fwin buick to cooling coil	ORDERING INFORMATION	
Twin-plate mini-gel unit with GRM and cooled gel tank, with built-in cooling coil and quick-fit tubing, plus lid, 2 x (10 x 10cm; W x H) plain glass plates, 4 x 1mm spacers, 2 x spacer aligners, 2 x (10 x 10cm) notched glass plates, 1 x dummy plate and 2 x 1mm thick 12-sample combs Twin-plate mini-gel unit with GRM and gel tank, lid, 2 x (10 x 10cm; W x H) plain glass plates, 4 x 1mm spacers, 2 x spacer aligners, 2 x (10 x 10cm) notched glass plates, 1 x dummy plate and 2 x 1mm thick 12-sample combs solus casting base and 2 x silicone seals TV100Y Fwin-plate mini-gel unit with GRM and cooled gel tank, with built-in cooling coil and quick-fit tubing, plus lid, 2 x (10 x 10cm; W x H) plain glass plates, 4 x 1mm spacers, 2 x spacer aligners, 2 x (10 x 10cm) notched glass plates, 1 x dummy plate, 2 x 10 x 10cm] notched glass plates, 1 x dummy plate, 2 x 10 x 10cm] notched glass plates, 1 x dummy plate, 2 x 10 x 10cm] notched glass plates, 1 x dummy plate, 2 x 10 x 10cm] notched glass plates, 1 x dummy plate, 2 x 10 x 10cm] plain glass plates with 0.75mm bonded spacers for TV100 TV100-PGS1 Z x (10 x 10cm] plain glass plates with 1.5mm bonded spacers for TV100 TV100-PGS1 Z x (10 x 10cm] plain glass plates with 1.5mm bonded spacers for TV100 TV100-PGS1 Z x (10 x 10cm] plain glass plates for TV100 TV100-PGS1 Z x (10 x 10cm] plain glass plates for TV100 TV100-PGS2 X (10 x 10cm] plain glass plates for TV100 TV100-PGS Z x (10 x 10cm] plain glass plates for TV100 TV100-PGS Z x 10 x 10cm] plain glass plates for TV100 TV100-PGS Z x 10 x 10cm] plain glass plates for TV100 TV100-PG Z x 10 x 10cm] plain glass plates for TV100 TV100-PG Z x 10 x 10cm] plain glass plates for TV100 TV100-S0.75 Z x 11 mu thick spacers for TV100 TV100-S1.5 Z x 12 mu thick spacers for TV100 TV100-S2 Z x spacer aligners for TV100 TV100-S2 Z x spacer aligners for TV100 TV100-S2 Z x spacer aligners for TV100 TV100-S4 Z x caster system for 2 x (10 x 10cm] gradient mini-gels TV100-MC21 Z x silicone gaskets for "non-eared" glass plates TV100-MC10 TX x caste	<b>Complete System</b> Twin-plate mini-gel unit with GRM and gel tank, lid, 2 x (10 x 10cm; W x H) plain glass plates, 4 x 1mm spacers, 2 x spacer aligners, 2 x (10 x 10cm) notched glass plates, 1 x dummy plate and 2 x 1mm thick 12-sample combs	Part No. TV100
Twin-plate mini-gel unit with GRM and gel tank, lid, 2 x (10 x 10cm;         W x H1 plain glass plates, 4 x 1mm spacers, 2 x spacer aligners,         2 x (10 x 10cm) notched glass plates, 1 x dummy plate         and 2 x 1mm thick 12-sample combs         Dulus casting base and 2 x silicone seals         Twin-plate mini-gel unit with GRM and cooled gel tank,         with built-in cooling coil and quick-fit tubing, plus lid, 2 x (10 x 10cm;         W x H1 plain glass plates, 4 x 1mm spacers, 2 x spacer aligners,         2 x (10 x 10cm) notched glass plates, 1 x dummy plate,         2 x 1mm thick 12-sample combs, casting base and 2 x silicone seals         TV100 gel-running module         2 x (10 x 10cm) plain glass plates with 0.75mm bonded spacers for TV100         2 x (10 x 10cm) plain glass plates with 1.5mm bonded spacers for TV100         2 x (10 x 10cm) plain glass plates with 1.5mm bonded spacers for TV100         2 x (10 x 10cm) plain glass plates for TV100         2 x (10 x 10cm) plain glass plates for TV100         2 x (10 x 10cm) plain glass plates for TV100         2 x (10 x 10cm) plain glass plates for TV100         2 x (10 x 10cm) plain glass plates for TV100         2 x (10 x 10cm) plain glass plates for TV100         2 x (10 x 10cm) plain glass plates for TV100         2 x (10 x 10cm) plain glass plates for TV100         2 x (10 x 10cm) notched glass plates         2 x (10 x 10cm)	Twin-plate mini-gel unit with GRM and cooled gel tank, with built-in cooling coil and quick-fit tubing, plus lid, 2 x (10 x 10cm; W x H) plain glass plates, 4 x 1mm spacers, 2 x spacer aligners, 2 x (10 x 10cm) notched glass plates, 1 x dummy plate and 2 x 1mm thick 12-sample combs	TV100K
Twin-plate mini-gel unit with GRM and cooled gel tank,         with built-in cooling coil and quick-fit tubing, plus lid, 2 x (10 x 10cm;         W x H] plain glass plates, 4 x 1mm spacers, 2 x spacer aligners,         2 x (10 x 10cm) notched glass plates, 1 x dummy plate,         2 x 1mm thick 12-sample combs, casting base and 2 x silicone seals         TV100YK         Replacement Parts & Accessories         1 x TV100 gel-running module       TV100-GRM         2 x quick-fit tubes for cooling coil       TCS-CC         2 x (10 x 10cm) plain glass plates with 0.75mm bonded spacers for TV100       TV100-PGS1         2 x (10 x 10cm) plain glass plates with 1.5mm bonded spacers for TV100       TV100-PGS1.5         2 x (10 x 10cm) plain glass plates for TV100       TV100-PGS2         2 x (10 x 10cm) plain glass plates for TV100       TV100-PG         2 x (10 x 10cm) plain glass plates for TV100       TV100-PG         2 x (10 x 10cm) plain glass plates for TV100       TV100-PG         2 x (10 x 10cm) plain glass plates for TV100       TV100-PG         2 x (10 x 10cm) plain glass plates for TV100       TV100-PG         2 x (10 x 10cm) plain glass plates for TV100       TV100-PG         2 x (10 x 10cm) plain glass plates for TV100       TV100-PG         2 x (10 x 10cm) agas plates       TV100         2 x (10 x 10cm) drages       TV1	Twin-plate mini-gel unit with GRM and gel tank, lid, 2 x (10 x 10cm; W x H) plain glass plates, 4 x 1mm spacers, 2 x spacer aligners, 2 x (10 x 10cm) notched glass plates, 1 x dummy plate and 2 x 1mm thick 12-sample combs plus casting base and 2 x silicone seals	TV100Y
Replacement Parts & Accessories1 x TV100 gel-running moduleTV100-GRM2 x quick-fit tubes for cooling coilTCS-CC2 x (10 x 10cm) plain glass plates with 0.75mm bonded spacers for TV100TV100-PGS0.752 x (10 x 10cm) plain glass plates with 1.5mm bonded spacers for TV100TV100-PGS12 x (10 x 10cm) plain glass plates with 2.5mm bonded spacers for TV100TV100-PGS1.52 x (10 x 10cm) plain glass plates with 2.5mm bonded spacers for TV100TV100-PGS22 x (10 x 10cm) plain glass plates for TV100TV100-PGS22 x (10 x 10cm) notched glass plates for TV100TV100-PG2 x (10 x 10cm) notched glass plates for TV100TV100-NG1 x (10 x 10 cm) dummy plateTV100-DP2 x 0.75mm thick spacers for TV100TV100-S0.752 x 1mm thick spacers for TV100TV100-S1.52 x 2mm thick spacers for TV100TV100-S12 x spacer aligners for TV100TV100-S22 x spacer aligners for TV100TV100-SA1 x cam-pin casting base with 2 silicone sealsTV100-CB2 x silicone seals for cam-pin casting baseTV100-MC21 x caster system for 2 x (10 x 10cm) gradient mini-gelsTV100-MC102 x silicone gaskets for "non-eared" glass platesTV100-SGB2 x 0.2mm thick, platinum electrode wirePT-0.22 x 1 matra pawer and with shoulded form pawor output connectorsCAPIE 5 d	Twin-plate mini-gel unit with GRM and cooled gel tank, with built-in cooling coil and quick-fit tubing, plus lid, 2 x (10 x 10cm; W x H) plain glass plates, 4 x 1mm spacers, 2 x spacer aligners, 2 x (10 x 10cm) notched glass plates, 1 x dummy plate, 2 x 1mm thick 12-sample combs, casting base and 2 x silicone seals	TV100YK
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2 x (10 x 10cm) notched glass plates for TV100TV100-NG1 x (10 x 10 cm) dummy plateTV100-DP2 x 0.75mm thick spacers for TV100TV100-S0.752 x 1.5mm thick spacers for TV100TV100-S12 x 1.5mm thick spacers for TV100TV100-S1.52 x 2mm thick spacers for TV100TV100-S22 x spacer aligners for TV100TV100-SA1 x cam-pin casting base with 2 silicone sealsTV100-CB2 x silicone seals for cam-pin casting baseTV100-CB-SEALS1 x caster system for 2 x (10 x 10cm) gradient mini-gelsTV100-MC102 x silicone gaskets for "non-eared" glass platesTV100-SGB2 x 0.2mm thick, platinum electrode wirePT-0.22 x 1 metre power leads with sknowled (mm power output connectors)CAPI 5 (	2 x (10 x 10cm) plain glass plates for TV100	TV100-PG
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2 x 0.75mm thick spacers for TV100TV100-S0.752 x 1mm thick spacers for TV100TV100-S12 x 1.5mm thick spacers for TV100TV100-S1.52 x 2mm thick spacers for TV100TV100-S22 x spacer aligners for TV100TV100-SA1 x cam-pin casting base with 2 silicone sealsTV100-CB2 x silicone seals for cam-pin casting baseTV100-CB-SEALS1 x caster system for 2 x (10 x 10cm) gradient mini-gelsTV100-MC21 x caster system for 10 x (10 x 10cm) gradient mini-gelsTV100-MC102 x silicone gaskets for "non-eared" glass platesTV100-SGB2 x 0.2mm thick, platinum electrode wirePT-0.22 x 1 metre power leads with sknowled (mm power cutout connectorsCAPL 5 4	1 x (10 x 10 cm) dummy plate	TV100-DP
2 x 1mm thick spacers for 1V100       1V100-S1         2 x 1.5mm thick spacers for TV100       TV100-S1.5         2 x 2mm thick spacers for TV100       TV100-S2         2 x spacer aligners for TV100       TV100-SA         1 x cam-pin casting base with 2 silicone seals       TV100-CB         2 x silicone seals for cam-pin casting base       TV100-CB-SEALS         1 x caster system for 2 x (10 x 10cm) gradient mini-gels       TV100-MC2         1 x caster system for 10 x (10 x 10cm) gradient mini-gels       TV100-MC10         2 x silicone gaskets for "non-eared" glass plates       TV100-SGB         2 x 0.2mm thick, platinum electrode wire       PT-0.2         2 x 1 metre power leads with schouded (mm power output connectors       CAPI 5 (dotted)	2 x 0.75mm thick spacers for TV100	TV100-S0.75
2 x 1.5mm thick spacers for TV100       TV100-51.5         2 x 2mm thick spacers for TV100       TV100-S2         2 x spacer aligners for TV100       TV100-SA         1 x cam-pin casting base with 2 silicone seals       TV100-CB         2 x silicone seals for cam-pin casting base       TV100-CB-SEALS         1 x caster system for 2 x (10 x 10cm) gradient mini-gels       TV100-MC2         1 x caster system for 10 x (10 x 10cm) gradient mini-gels       TV100-MC10         2 x silicone gaskets for "non-eared" glass plates       TV100-SGB         2 x 0.2mm thick, platinum electrode wire       PT-0.2         2 x 1 metre power leads with schouded (mm power output connectors)       CAPI 5 (	2 x 1mm thick spacers for TV100	TV100-S1
2 x 2mm thick spacers for TV100       TV100-S2         2 x spacer aligners for TV100       TV100-SA         1 x cam-pin casting base with 2 silicone seals       TV100-CB         2 x silicone seals for cam-pin casting base       TV100-CB-SEALS         1 x caster system for 2 x (10 x 10cm) gradient mini-gels       TV100-MC2         1 x caster system for 10 x (10 x 10cm) gradient mini-gels       TV100-MC10         2 x silicone gaskets for "non-eared" glass plates       TV100-SGB         2 x 0.2mm thick, platinum electrode wire       PT-0.2         2 x 1 metre power leads with schouded (mm power output connectors)       CAPL 5 4	2 x 1.5mm thick spacers for TV100	TV100-S1.5
2 x spacer aligners for TV100       TV100-SA         1 x cam-pin casting base with 2 silicone seals       TV100-CB         2 x silicone seals for cam-pin casting base       TV100-CB-SEALS         1 x caster system for 2 x (10 x 10cm) gradient mini-gels       TV100-MC2         1 x caster system for 10 x (10 x 10cm) gradient mini-gels       TV100-MC10         2 x silicone gaskets for "non-eared" glass plates       TV100-SGB         2 x 0.2mm thick, platinum electrode wire       PT-0.2         2 x 1 metre power leads with shrouded (mm power output connectors       CAPI 5 (	2 x 2mm thick spacers for TV100	TV100-S2
1 x cam-pin casting base with 2 silicone seals       IV100-CB         2 x silicone seals for cam-pin casting base       TV100-CB-SEALS         1 x caster system for 2 x (10 x 10cm) gradient mini-gels       TV100-MC2         1 x caster system for 10 x (10 x 10cm) gradient mini-gels       TV100-MC10         2 x silicone gaskets for "non-eared" glass plates       TV100-SGB         2 x 0.2mm thick, platinum electrode wire       PT-0.2         2 x 1 metre power leads with shrouded (mm power output connectors       CAPL 5 (	2 x spacer aligners for TVTUU	IVIUU-SA
2 x stucone seats for cam-pin casting base       TV100-CB-SEALS         1 x caster system for 2 x (10 x 10cm) gradient mini-gels       TV100-MC2         1 x caster system for 10 x (10 x 10cm) gradient mini-gels       TV100-MC10         2 x silicone gaskets for "non-eared" glass plates       TV100-SGB         2 x 0.2mm thick, platinum electrode wire       PT-0.2         2 x 1 metre power leads with shrouded (mm power output connectors       CAPLE 4	I x cam-pin casting base with 2 silicone seals	
1 x caster system for 2 x (10 x 10cm) gradient mini-gets       TV100-MC2         1 x caster system for 10 x (10 x 10cm) gradient mini-gets       TV100-MC10         2 x silicone gaskets for "non-eared" glass plates       TV100-SGB         2 x 0.2mm thick, platinum electrode wire       PT-0.2         2 x 1 metre power leads with shrouded (mm power output connectors       CAPLE 5	Z x succone seals for cam-pin casting base	TV100 MC2
2 x silicone gaskets for "non-eared" glass plates       TV100-SGB         2 x 0.2mm thick, platinum electrode wire       PT-0.2         2 x 1 metre power leads with shrouded (mm power output connectors)       CAPLE 4	1 x caster system for 2 x (10 x 10cm) gradient mini-gets	
2 x 0.2mm thick, platinum electrode wire PT-0.2	1 x caster system for 10 x (10 x 10cm) gradient mini-gets	
2 x 0.2mm mick, plannum electroue wire FT-0.2	2 x Sincone yaskets for inon-eared glass plates	PT_0 2
A LINEVE NOWEL LEAVE WITH SHIVUVEN 4HITH NOWEL UNDUL CONTRUCTS - CADLE-4	2 x 1 metre power leads with shrouded 4mm power output connectors	CABLE-4

### TV100 Combs

Part No.	Thickness	Sample	Tooth	Tooth	Max.	Sample
	(mm)	Throughput	Width	Height	Spacing	Volume /
			(mm)	(mm)	(mm)	Well (µl)
+TV100-C0.75-1D	0.75	1	70	15	n/a	785
*TV100-C0.75-8MC	0.75	8	6	15	3	67
TV100-C0.75-10	0.75	10	4	15	3	45
TV100-C0.75-12	0.75	12	3.75	15	2.25	42
*TV100-C0.75-16MC	0.75	16	2.5	15	2	28
TV100-C0.75-20	0.75	20	2	15	15	22
+TV100-C1-1D	1	1	70	15	n/a	1050
*TV100-C1-8MC	1	8	6	15	3	90
TV100-C1-10	1	10	4	15	3	60
TV100-C1-12	1	12	3.75	15	2.25	56
*TV100-C1-16MC	1	16	2.5	15	2	37
TV100-C1-20	1	20	2	15	15	30
+TV100-C1.5-1D	1.5	1	70	15	n/a	1575
*TV100-C1.5-8MC	1.5	8	6	15	3	120
TV100-C1.5-10	1.5	10	4	15	3	90
TV100-C1.5-12	1.5	12	3.75	15	2.25	84
*TV100-C1.5-16MC	1.5	16	2.5	15	2	55
TV100-C1.5-20	1.5	20	2	15	1.5	45
+TV100-C2-1D	2	1	70	15	n/a	2100
*TV100-C2-8MC	2	8	6	15	3	180
TV100-C2-10	2	10	4	15	3	120
TV100-C2-12	2	12	3.75	15	2.25	112
*TV100-C2-16MC	2	16	2.5	15	2	75
TV100-C2-20	2	20	2	15	1.5	60
*Multi-channel compatible	+Suitable f	for 1-D preparato	ry or 2-D ele	ctrophoresis		



Rat supernatant proteins separated, following serial dilution, using the TV100Y mini-gel electrophoresis unit at 230V for 1 hour and 20 minutes. Proteins were resolved in a 4% polyacrylamide stacking gel and a 10% polyacrylamide resolving gel made from the following SERVA chemicals: 40% (37.5:1) acrylamide [10681.03]; 1M Tris-HCl, pH 8.5 [39794.01]; 20% (w/v) SDS solution [20767.03]; APS [13375.05]; TEMED [35925.01]; 10x Laemmli buffer [42556.01]; Tris (analytical grade) [37180.04] and Glycine (analytical grade) [23390.03]. Courtesy of The University of Coventry, UK.

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PRECAST SDS-PAGE GELS	SEE PAGE 141
A BLOTTING MODULE	SEE PAGE 72
ELECTROPHORESIS BUFFERS	SEE PAGE 137
RECIRCULATING CHILLER	SEE PAGE 92
COLLOIDAL COOMASSIE BLUE STAIN	SEE PAGE 137