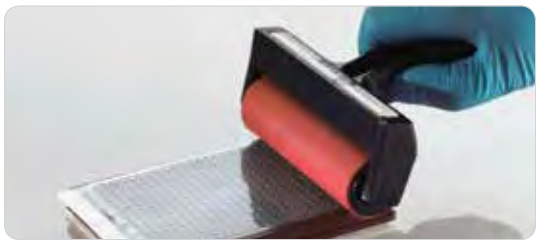
PCR Accessories

A range of accessories to help impove sample handling, PCR results and to simplify the PCR work-flow



Ergo Stand

For sample set-up we offer the Ergo Stand whose fully adjustable position helps to reduce repetitive strain disorders from pipetting.

Ergo Freeze Blocks

The Ergo Freeze blocks can be used in combination with the Ergo Stand or on their own to keep samples at 4°C during PCR set up.

White Marker Pen

Our white marker pen allows effective labelling of coloured plates to reduce sample errors.

Adhesive Sealing

For improved sealing performance of adhesive seals we offer a number of solutions like our optical film compression pads, FrameStar® plate adapter and adhesive seal roller.

NEW Plate Cutter

We are very proud to present the latest addition to our range: the 4titude® Plate Cutter. Depending on the blades used it can cut plates or seals in strips or partial plate sections.

Ergo Stand

The Ergo Stand is designed for holding microplates and PCR plates during pipetting. Skirted plates sit directly onto the stand, non-skirted, semi-skirted , strips of tubes and single tubes can sit within a plate adapter (4ti-0960/X-F), supplied free with the Ergo Stand.

The height and angle of the Ergo Stand can be adjusted for maximum pipetting comfort, to reduce stress and strain on the upper body and to help prevent repetitive strain disorders (RSI) and work-related upper-body limb disorders (WRULD).

The stand includes eight spaces for 1.5ml or 2.0ml microcentrifuge tubes. This is especially useful when pipetting master mixes into PCR plates.

For colour coding or identification of your work, we offer the Ergo Stands in four colours: red, yellow, green and blue.

Code	Description	Quantity
4ti-0393/B	Ergo Plate Stand, Blue	1 stand
4ti-0393/R	Ergo Plate Stand, Red	1 stand
4ti-0393/G	Ergo Plate Stand, Green	1 stand
4ti-0393/Y	Ergo Plate Stand, Yellow	1 stand
4ti-0960/X-F	Ergo Plate Adapter (for use with non-skirted and semi-skirted PCR plates)	1 adapter

Ergo Freeze Personal Cooling Blocks

Use of the Ergo stand can be combined with the Ergo Freeze cooling blocks (for details see page 51)

White Marker Pen

- Ideal for labelling coloured microplates
- Impervious to aqueous and organic solvents
- Low odour

Code	Description	Quantity
4ti-0394	White marker pen	1 pen

This marker pen is ideal for labelling our Vision Plates™, FrameStar® Plates and FrameStrips™. The resulting white labelling is clear to see on all colours of plate. Once dry this water resistant ink cannot be removed using aqueous or organic solvents.

Ergo Freeze

- SBS format
- Maintains samples at 4°C for up to 2.5 hours
- Suitable for all PCR plates and tubes
- Compatible with Ergo Stand
- Colour change clearly indicates duration of cooling

Code	Description	Quantity
4ti-0395	Ergo Freeze Personal Cooling Block, pink	1 Ergo Freeze
4ti-0396	Ergo Freeze Personal Cooling Block, yellow	1 Ergo Freeze

These SBS-sized cooling blocks, available in pink and yellow, are the perfect PCR accessory. Once frozen for 8 hours at -20°C, they turn from pink to purple or yellow to green and maintain 4°C for approximately 2.5 hours. At 7°C the block returns to its original colour, clearly indicating when it is no longer refrigerating the samples.

Pierce Plate

- Pierces a complete 96 well plate in one motion
- Easy to use
- Save time

Code	Description	Quantity
4ti-0398	Pierce Plate	1

The Pierce plate is a metal tool with 96 sharp metal spikes aligned central to each well of a 96well plate. The Pierce plate can be easily positioned over a sealed plate and with minimal pressure, will pierce all 96wells simultaneously. Each well may then be easily accessed with a single, 8, 12 or 96 tip manual or automated pipette.

The Pierce plate can puncture most heat and adhesive seals.

Optical Film Compression Pad

- Improved adhesive seal performance
- 96 windows enabling use on qPCR instruments
- Compatible with heated lid cyclers
- Reduces PCR fails
- Reduced well to well variation

Code	Description	Quantity
4ti-0563	Optical film compression pad	5 pads

The Optical Film Compression Pad is a soft silicon foam laminated to a non-stick film. When used in conjunction with adhesive seals, such as the qPCR adhesive seal (4ti-0560), the pad enhances the adhesion between the seal and the PCR plate. In turn, this improves results by reducing the chance of sample evaporation.

FrameStar® 384 Plate Adapter

- Ensures even and consistent application of adhesive seals to 384well plates
- Supports all 384 wells evenly
- For best results, use with our Adhesive Seal Roller

Code	Description	Quantity
4ti-0391	FrameStar® Plate Adapter for adhesive seals	1 Adapter

Also see
ADHESIVE SEALING (PAGES 76-83)

The plate adaptor offers on effective platform for efficient sealing of 384well PCR plates using adhesive seals. Its design ensures that the plate is held perfectly flat so that even pressure can be applied with the Adhesive Seal Roller (4ti-0502).

Adhesive Seal Roller

- Complete and secure application of adhesive seals
- Consistent seal application across all wells
- Recommended for use with all 4titude® adhesive seals

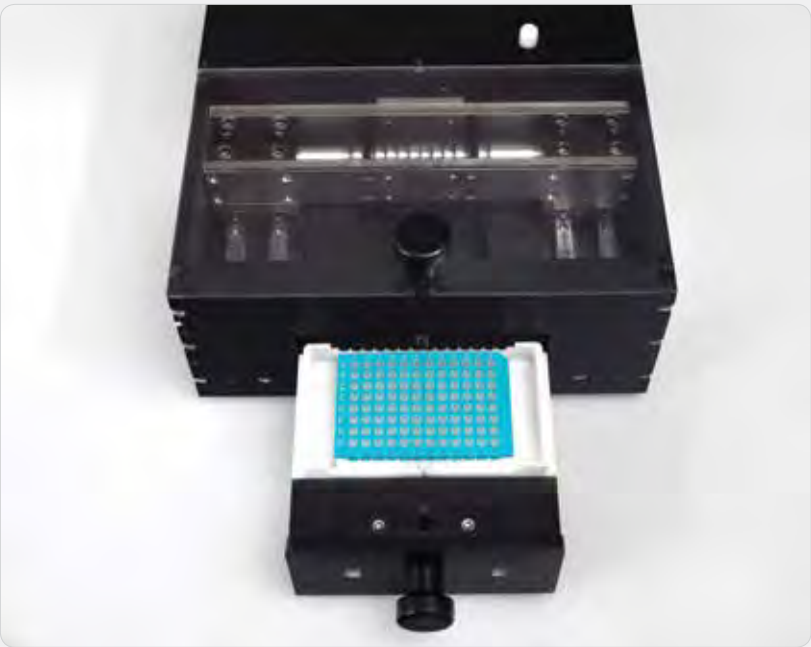
Code	Description	Quantity
4ti-0502	Roller for adhesive seals	1 roller

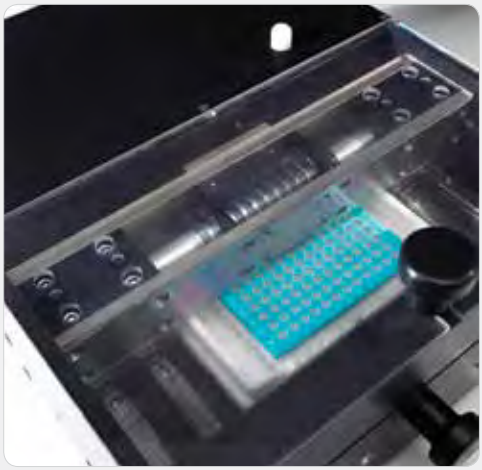
Also see
ADHESIVE SEALING (PAGES 76-83)

Our Adhesive Seal Roller is of a durable plastic construction with a padded roller. It is recommended for use with all our adhesive seals.

NEW

Plate Cutter





The semi-automatic Plate Cutter (4ti-3000) can be used with various blade options to create either strips or partial plates from sealed or unsealed Break-A-Way plates. Alternatively, when placed on a different support plate the instrument can be used to cut an adhesive or heat seal on a plate without cutting the plate itself.

The FrameStar® Break-A-Way plate is positioned on the plate carrier and the drawer pushed fully into the instrument. After locking the draw, the cutting action is activated and the air pressure powered cutting blades roll over the plate cutting it into the segments or scoring the plate seal.

Available as 8well strip cutter, a 12well strip version will be launched in 2014.

Code	Description	Quantity
4ti-3000	PlateCutter, including air tubing and user manual	1
4ti-3010	Single Strip Cutter Head	1
4ti-3020	Double Strip Cutter Head	1
4ti-3030	Triple Strip Cutter Head	1
4ti-3040	4-Strip Cutter Head	1
4ti-3050	Half-Plate Cutter Head	1

- Cuts sealed or unsealed Break-A-Way plates
- Ideal for kit manufacturing
- Works with wide range of adhesive and heat seals

Technical specifications

- Dimensions: 210x460x450mm
- Weight: 30kg
- Air pressure 5.5-6.0bar (80-87psi)

Also see

BREAK-A-WAY (PAGES 26-29)