

PCR Tubes & Strips

4titude®'s PCR tubes and cap strips are manufactured from virgin polypropylene in our Class 7 ISO certified cleanroom production facility.

Our thin-walled tubes maximise heat transfer and all of our PCR consumables are certified free from RNase, DNase, human genomic DNA and pyrogens. PCR tubes provide handling convenience for low throughput usage and our flat cap strips are suitable for optical assays whilst the domed cap strips facilitate efficient heat transfer with "hot-lid" thermal cyclers.



Our FrameStrip™ PCR tube strips are a unique two-component design with thin walled polypropylene tubes, for efficient heat transfer, and a frame moulded from polycarbonate. This gives a rigid tube strip for easy and reliable handling which can be 2D barcoded and is available in various colours.



NEW

Our new Vari-Strips™ are low profile white or clear PCR tube strips which are moulded from virgin polypropylene under our clean-room conditions.

The Vari-Strips™ can be used as a standalone product or loaded by hand into various frames. We also provide them as Vari-Plate™ where frames are preloaded with 12 Vari-Strips™.



FRAMEstrip™

2-Component PCR Tube Strips

4titude®'s new FrameStrip™ PCR tube strips are a two-component design, combining the advantages of thin-walled tubes for optimum PCR results and a rigid frame portion for easy and reliable handling.

For the tubes we use polypropylene, which provides the most efficient heat transfer, as well as an inert surface with low binding capabilities for nucleic acids, proteins and other molecules. By moulding the frame portion in a more rigid polymer, polycarbonate, the mechanical stability of the strip has been greatly improved compared with traditional single piece products.

Colour Options

For colour coding of experiments we offer the strips in 5 frame colours, all with clear tubes and for optical assays such as QPCR we supply strips with white wells in black frames. FrameStrips™ are available with either domed cap strips or with flat, optically clear caps and are compatible with the majority of thermal cyclers. End tabs allow for easy handling and labelling of the strips.

2D Barcoding & Reader

The products are also available with an off-the-shelf 2D bar code offering an endless supply of unique code combinations. 4titude®'s 2D reader together with the user-friendly software allows for reliable and convenient sample management. Fast and accurate reading is guaranteed via the built in error correction with data redundancy.



In contrast to standard tube strips the FrameStrips™ will remain straight and stable even at elevated temperatures and when filled with liquid.



2D barcode readers available, see page 55

Also see

FRAMESTAR® FULL FEATURES LIST (PAGE 10-15)
PLATE COMPATIBILITY TABLE (PAGE 46-48)
BARCODING (PAGE 54)
STRIP CAPS (PAGE 45)

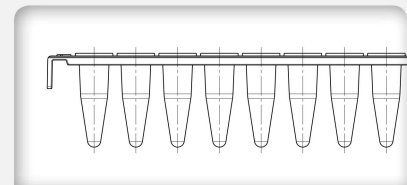


SCAN QR CODE TO CHECK PLATE
COMPATIBILITY FOR YOUR
INSTRUMENT OR SEE PAGE 46-48

www.4ti.co.uk/plate-compatibility

FrameStrips™ are available in 5 frame colours and 2D barcoded

2-Component PCR Tube Strips



Frame Colour options



Well Colour options

Clear or White

Other options

- Available 2D barcoded



MAX = 300µl
WORKING = 250µl

4titude®'s new FrameStrip™ PCR tube strips are a two-component design, combining the advantages of thin-walled tubes for optimum PCR results and a rigid frame portion for easy and reliable handling.

For colour coding of experiments we offer the strips in 5 frame colours, all with clear tubes and for optical assays such as qPCR we supply strips with white wells in black frames.

	Strip length:	83.22 ± 0.25 mm
	Strip depth:	9.00 ± 0.25 mm
	Strip height (a):	20.80 ± 0.25 mm
	Well depth (b):	20.30 ± 0.15 mm
	Well diameter (c):	5.46 ± 0.10 mm
	Pitch (distance between A1 and A2):	9.00 mm

- Rigid two-component design for mechanical stability
- Eliminates tube strip breakage
- End tabs for easy handling and labelling
- Low volume PCR
- White well strip option for qPCR
- Thin walled polypropylene tubes for maximum heat transfer
- Suitable for cap sealing
- RNase, DNase, Human Genomic DNA Free

Code	Description	Quantity
4ti-0785/P	FrameStrip™ strips of 8 clear tubes with domed caps, purple frame	120 strips of 8 tubes & domed caps
4ti-0785/B	FrameStrip™ strips of 8 clear tubes with domed caps, blue frame	120 strips of 8 tubes & domed caps
4ti-0785/G	FrameStrip™ strips of 8 clear tubes with domed caps, green frame	120 strips of 8 tubes & domed caps
4ti-0785/R	FrameStrip™ strips of 8 clear tubes with domed caps, red frame	120 strips of 8 tubes & domed caps
4ti-0785/X	FrameStrip™ strips of 8 clear tubes with domed caps, black frame	120 strips of 8 tubes & domed caps
NEW 4ti-0785/M	FrameStrip™ strips of 8 clear tubes with domed caps, assorted colour frames	120 strips of 8 tubes & domed caps
4ti-0786/P	FrameStrip™ strips of 8 clear tubes with flat optical caps, purple frame	120 strips of 8 tubes & flat optical caps
4ti-0786/B	FrameStrip™ strips of 8 clear tubes with flat optical caps, blue frame	120 strips of 8 tubes & flat optical caps
4ti-0786/G	FrameStrip™ strips of 8 clear tubes with flat optical caps, green frame	120 strips of 8 tubes & flat optical caps
4ti-0786/R	FrameStrip™ strips of 8 clear tubes with flat optical caps, red frame	120 strips of 8 tubes & flat optical caps
4ti-0786/X	FrameStrip™ strips of 8 clear tubes with flat optical caps, black frame	120 strips of 8 tubes & flat optical caps
NEW 4ti-0786/XW	FrameStrip™ strips of 8 white tubes with flat optical caps, black frame	120 strips of 8 tubes & flat optical caps
4ti-0786/M	FrameStrip™ strips of 8 white tubes with flat optical caps, assorted colour frames	120 strips of 8 tubes & flat optical caps
4ti-0785/X/2D	FrameStrip™ strips of 8 clear tubes with domed caps, black frame	120 strips of 8 tubes & domed caps with 2D barcode
4ti-0786/X/2D	FrameStrip™ strips of 8 clear tubes with flat optical caps, black frame	120 strips of 8 tubes & flat optical caps with 2D barcode
4ti-0787	2D barcode reader plus software	1

Vari-Plates™

Vari-Strip™ PCR Tube Strips in Frames

Vari-Strip™ low profile PCR tube strips are moulded from virgin polypropylene under clean-room conditions. They can be used as a stand-alone product, see page 44, or with a frame for ease of handling.

Vari-Strip™ is available in clear polypropylene for standard PCR techniques. For fluorescent detection, like qPCR, Vari-Strip™ is available with white well tubes which give the highest sensitivity and the highest consistency as all the fluorescence signal is reflected back to the detector.

The Vari-strip™ can be inserted into a frame and there are three frames available, one for the Roche Lightcycler® 480, one recommended for use with ABI Fast Block cyclers and a standard 96 well skirted frame, to create Vari-Plates™.

Vari-Plates™ are also available pre-loaded for maximum convenience.



Vari-Plate™



4ti-0950-F Vari-Strip™ 480/96 frame for Roche LightCycler 480



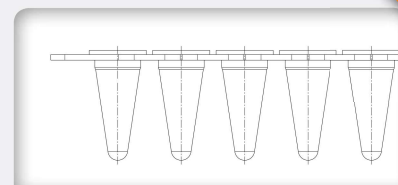
4ti-0910-F Vari-Strip™ FastBlock frame for ABI Fast Block



4ti-0757-F Universal fully skirted plate

Code	Description	Quantity
4ti-0753	Vari-Strip™ low profile 8 strip tubes, white	120 tube strips
4ti-0753/C	Vari-Strip™ low profile 8 strip tubes, clear	120 tube strips
4ti-0754	Vari-Strip™ low profile 8 strip tubes, white, with flat optical caps	120 tube strips + 120 cap strips
4ti-0754/C	Vari-Strip™ low profile 8 strip tubes, clear, with flat optical caps	120 tube strips + 120 cap strips
4ti-0950-F	Vari-Strip™ 480/96 frame, clear	5 frames
4ti-0910-F	Vari-Strip™ FastBlock frame, clear	5 frames
4ti-0757-F	Vari-Strip™ Skirted frame, white	5 frames
4ti-0753/757	Vari-Strip™, white, pre-loaded in fully skirted frame	50 plates
4ti-0753/C/757	Vari-Strip™, clear, pre-loaded in fully skirted frame	
4ti-0753/950	Vari-Strip™, white, pre-loaded in semi-skirted LC480 frame	50 plates
4ti-0753/C/910	Vari-Strip™, clear, pre-loaded in semi-skirted ABI Fast Block frame	50 plates

For thermal cycler compatibility, see 4ti-0950, 4ti-0910 and 4ti-0960 in the plate compatibility table



Colour options



Other options

- Available barcoded
- Available with flat optical caps



MAX = 200µl
WORKING = 150µl

- Use as individual strips or in a frame, for easier handling
- Low profile
- Barcoding of frames possible
- Polypropylene thin-walled tubes for optimum PCR results
- Suitable for cap sealing
- RNase, DNase, Human Genomic DNA Free

Also see

PLATE COMPATIBILITY TABLE (PAGE 46-48)
BARCODING (PAGE 54)
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SCAN QR CODE TO CHECK PLATE COMPATIBILITY FOR YOUR INSTRUMENT OR SEE PAGE 46-48

www.4ti.co.uk/plate-compatibility

Strips of 8 PCR Tubes



The tubes are individually numbered for sample recognition and available with or without caps.

Our thin walled PCR tube strips provide optimal heat transfer between the thermal cycler block and the reaction mixture. They are moulded from virgin polypropylene under clean-room conditions and are certified RNase, DNase and human genomic DNA free.

NEW Also available with IdentiTag labels.

Code	Description	Quantity
4ti-0781	Strips of 8 PCR tubes	125 strips
4ti-0780	Strips of 8 PCR tubes and domed caps	125 strips
4ti-0784	Strips of 8 PCR tubes and flat optical caps	125 strips
NEW 4ti-0777	IdentiTags, white	100

For tube strips with IdentiTag labels please add /L to product code

Vari-Strip™ 8 Strip PCR Tubes



These low profile PCR tube strips are moulded from virgin polypropylene under clean-room conditions and are available in clear or white.

Our white well PCR tubes and plates give the highest sensitivity and consistency for qPCR as all the fluorescence signal is reflected back to the detector.

Code	Description	Quantity
4ti-0753	Vari-Strip™ low profile 8 strip tubes, white	120 tube strips
4ti-0753/C	Vari-Strip™ low profile 8 strip tubes, clear	120 tube strips
4ti-0754	Vari-Strip™ low profile 8 strip tubes, white, with optical caps	120 tube strips + 120 cap strips
4ti-0754/C	Vari-Strip™ low profile 8 strip tubes, clear, with optical caps	120 tube strips + 120 cap strips
NEW 4ti-0777	IdentiTags, white	100



MAX = 300µl
WORKING = 250µl

- Suitable for most standard thermal cyclers
- Individually numbered tubes
- Can be cut into sections or individual
- Thin-wall design tubes for maximum heat transfer
- Available with domed or flat, optical caps
- Suitable for cap sealing
- RNase, DNase, Human Genomic DNA Free



MAX = 200µl
WORKING = 150µl

- Low profile strips
- Thin wall design for maximum heat transfer
- RNase, DNase, Human Genomic DNA Free
- Suitable for cap sealing
- Available with flat optical caps
- Hole in end tab for sample orientation



NEW IDENTITAGS

Labels for use with standard strips or Vari-Strips™, simple to slide on. Enough room to label the experiment and/or use barcode stickers

Individual 0.2ml PCR Tubes



Our thin walled PCR tubes with a snap-shut cap design provide optimal heat transfer between the thermal cycler block and the reaction mixture. They are moulded from virgin polypropylene under clean-room conditions and are certified RNase, DNase and human genomic DNA free.



- Suitable for all standard thermal cyclers
- Snap-shut cap
- Flat and optical domed cap designs
- Thin-wall design for maximum heat transfer
- RNase, DNase, Human Genomic DNA Free

Code	Description	Quantity
4ti-0790	0.2ml single tube, flat optical cap	1000
4ti-0795	0.2ml single tube, domed cap	1000

Flat and Domed PCR Strips



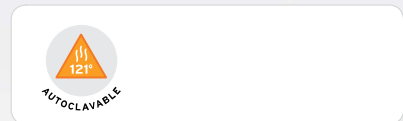
4titude® polypropylene PCR Cap Strips are precision moulded to ensure effective sealing on all 4titude® PCR strip tubes and 96well PCR plates.

PCR Cap Strips optimised for FrameStar®, FrameStrip™ & FrameStar® Break-A-Way

Code	Description	Quantity
4ti-0751	Strips of 8 flat optical caps	300 strips
4ti-0752	Strips of 8 domed caps	300 strips

PCR Cap Strips for PCR tube Strips and standard PCR Plates

Code	Description	Quantity
4ti-0783	Strips of 8 flat optical caps	125 strips
4ti-0782	Strips of 8 domed caps	125 strips



- Easy to apply
- Flat optical caps are optically clear for fluorescence applications (e.g. PCR)
- Large end tabs for easy removal
- Labelled for orientation
- RNase, DNase, Human Genomic DNA Free

COMING SOON

Ultra clear cap strips are made from a special polymer that allows improved transmission for wavelengths below 400nm and superior optical properties