

## Are you doing PCR?

Introducing 4titude® from Brooks Life Sciences



From Brooks LIFE SCIENCES

Founded in 2005, 4titude is a leading supplier within the Life Science Sector supplying: molecular diagnostics, forensics, pharma, life science research and applied markets. 4titude's main focus areas include PCR products, robotics, NGS consumables, imaging plates, sealing systems and custom applications. They are continually expanding their product ranges using innovative design and precision manufacturing. Please see the below for a selection of existing products.

### AUTOMATIC ROLL HEAT SEALER A4S

Providing the perfect solution for automated heat sealing

- ✓ Unrivalled sealing performance and consistency: 5,000 perfect seals without intervention
- ✓ SiLA compatible: Easy integration into robotic systems
- ✓ No external air supply required: Cost-saving and compact device, simple installation
- ✓ A perfect complement to the Brooks X-Peel

Our competitively priced a4S does not require an air supply, giving it the flexibility to be placed either on a standard lab bench, as a stand-alone unit, or integrated within a robotic set-up. The sealer's rapid heating element enables a fast start-up, and the stand-by function saves energy when the unit is not in use.



### SEMI-AUTOMATIC SHEET HEAT SEALER 4S3

Automatic sealing process for unmatched sealing consistency

- ✓ Reproducible sealing quality & performance: Consistent, uniform sealing
- ✓ Intuitive operation: Easy set-up of sealing temperature and time
- ✓ Compatible with a wide range of plates and seals: Highest flexibility



### RANDOM ACCESS PLATES

96 well Plates with Individually Removable Wells

Random Access plates provide the greatest flexibility in PCR plates, affording handling of individual wells in a 96 well plate format. Each well is moulded into a rigid frame suitable for use with automation.

Once containing your sample or reagents, plates can be sealed using random access heat seals resulting in filled wells which can be removed from the plate as required.

The wells are made from medical grade polypropylene which is perfectly suited for use in PCR as well as for long term storage.



Automated  
Storage Systems

Cryopreservation &  
Cold Chain Solutions

Informatics &  
Technical Solutions

Sample Storage,  
Lab Services & Transport

Sample Consumables  
& Instruments

Learn more – [www.brookslifesciences.com](http://www.brookslifesciences.com)

Contact us – [www.brookslifesciences.com/contact-us](http://www.brookslifesciences.com/contact-us)

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## FRAMESTAR® TWO-COMPONENT PCR PLATES

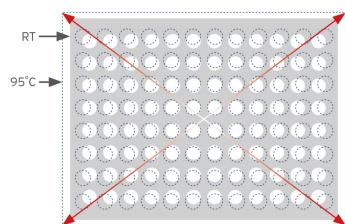
FrameStar® PCR plates prevent sample loss by minimising thermal expansion during PCR, enabling reductions in PCR volumes and cost savings on reagents.

Their two-component design combines the advantages of thin walled polypropylene (PP) tubes, for optimum PCR results, with a rigid polycarbonate (PC) skirt and deck for highest thermal stability and rigidity, making them the plates of choice for any robotic workflows.

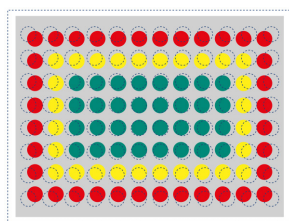
- ✓ Seven frame colours with clear, frosted or white tubes available: Flexible solutions for every application
- ✓ No warping due to stable polycarbonate frame: Reliable use with stackers and liquid handlers
- ✓ Minimised thermal expansion: Better sealing properties and reduced evaporation for improved PCR consistency



## EVAPORATION FROM STANDARD PCR PLATES



Standard polypropylene plates expand by up to 2mm during thermal cycling which leads to movement of wells away from the plate centre. This movement is most significant in corner and outer wells.



Risk of evaporation from the outer rows (red) of a standard PP PCR plate is highest, medium level evaporation occurs in the second row (yellow) and sample loss from the inner 32 wells (green) is lowest (the dotted line represents an expanded standard PP plate).

## SEALING SOLUTIONS

4titude® offers the broadest range of sealing films and foils in sheet and roll formats.



## NEXT GENERATION SEQUENCING

Next Generation Sequencing sample preparation requires PCR consumables such as strips, plates, and seals.

4titude® supplies researchers worldwide with perfect solutions especially for fully automated workflows.



Your contact in the USA: 4titude North America, Tel: +1 888 484 8424, Email: [infousa@4ti.co.uk](mailto:infousa@4ti.co.uk)  
For detailed product information please also refer to our webpage [www.4ti.co.uk](http://www.4ti.co.uk)

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