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Череповец (8202)49-02-64  
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<https://azenta.nt-rt.ru/> || [aez@nt-rt.ru](mailto:aez@nt-rt.ru)

## All Individual Access PCR Plates

# Individual Access 96 Well Skirted PCR Plate



4ti-0960/RA | Individual Access 96 Well Skirted PCR Plate | Front

Low profile, individually removable 0.1ml polypropylene wells, rigid polycarbonate frame, cut corner H1, working volume: <100µl, total well capacity: 200µl

- Available barcoded on request

### Overview

96 well, fully skirted, low profile format with each tube inserted separately into the plate frame, allowing for selection and removal of individual tubes from the plate. Each tube clicks into place in the frame ensuring tubes are secure once inserted. The rigid polycarbonate skirt of this design eliminates warping and distortion during PCR.

Together with the SBS footprint, this makes the plate suitable for use with robotic systems, ideal for both small to high throughput labs. Empty frames are available for tubes to be transferred to. The frames can be re-used multiple times, depending on the application.

### Key Features

- **Quality**
- **Tubes**
  - Individually removable from the rigid frame, while the rest of the tubes can remain in storage, reducing freeze-thawing of the whole plate
  - Thin walled tubes are made from PP for optimal results in (q)PCR whilst also being suitable for storage and incubation
  - <100µl working volume, <200µl total well capacity
- **Frame**
  - Rigid polycarbonate frame provides mechanical stability of the plate
  - Alphanumeric grid reference to aid well and sample identification

- **Use**
  - Ideal for use with robotic systems
  - Fewer transfer steps as the same tube can be used for both (q)PCR and storage
  - Each tube can still be separated after sealing
  - Each tube can be individually heat sealed using the Individual Access Pierce Heat Seal Strong, such as the contents of each tube is left secure from cross contamination and evaporation for storage and transfer
- **Options**
  - Empty frames are available for tubes to be transferred to; frames can be re-used multiple times, depending on the application
  - The plate can be sealed in one step using Individual Access Pierce Heat Seal Strong (4ti-05381/RA) on the Semi-Automated Sheet Heat Sealer (using the 59-2005 Individual Access adapter), resulting in individually sealed tubes with pierceable seals to allow for sample access
  - Available barcoded upon request; learn more about our barcoding options
  - We also offer customization of the Individual Access Plates such as color coding of the individual wells; please contact an expert for details

## Specifications

Parameter	Individual Access 96 Well Skirted PCR Plate
Plate length	127.76 ± 0.25mm
Plate width	85.48 ± 0.25mm
Plate height	15.50 ± 0.25mm
Well depth	15.10 ± 0.10mm
Well diameter	5.50 ± 0.10mm
Total well capacity	0.2ml (200µl)
Working volume	<0.1ml (100µl)
Distance to center of A1 from top edge	11.24 ± 0.25mm
Distance to center of A1 from left edge	14.38 ± 0.25mm
Pitch (distance between A1 and A2)	9.00mm

## Compatibility

- **AGILENT/STRATAGENE**

- **Thermal Cyclers (96 well block):** Robocycler Gradient
  - **qPCR Cyclers (96 well block):** AriaMx
- **BIO-RAD**
  - **Thermal Cyclers (96 well block):** C1000 Touch | S1000
  - **qPCR Cyclers (96 well block):** CFX96 Touch | CFX96 Touch Deep Well | CFX connect
- **BIO-RAD MJ RESEARCH**
  - **Thermal Cyclers (96 well block):** PCT100™/200™/220™/221™/225™/240™
  - **qPCR Cyclers (96 well block):** Chromo4™ | Opticon2™
- **EPPENDORF**
  - **Thermal Cyclers (96 well block):** MasterCycler® ep/ep gradient/Pro/Pro S/nexus/nexus gradient/nexus SX1/nexus GSX1
  - **qPCR Cyclers (96 well block):** MasterCycler™ ep realplex
- **PEQLAB/VWR**
  - **Thermal Cyclers (96 well block):** peqSTAR 96X
- **SENSOQUEST**
  - **Thermal Cyclers (96 well block):** Labcycler
- **TECHNE**
  - **Thermal Cyclers (96 well block):** TC412 | TC512 | Genius | Genius Quad | Touchgene | Touchgene Gradient | Flexigene
  - **qPCR Cyclers (96 well block):** Quantica

For recommended plate options depending on manufacturer, block type, and instrument please refer to the Azenta Life Sciences Plate Instrument Compatibility Table.

## Ordering Information

Use these part numbers to request a quote, a sample or to contact an expert:

Part number	Description
<b>Individual Access 96 Well Skirted PCR Plate</b> Low profile, individually removable 0.1ml polypropylene wells, rigid polycarbonate frame, cut corner H1, working volume: <100µl, total well capacity: 200µl	
4ti-0960/RA	clear wells, white frame; 50 plates
4ti-0960/RA-F	white frame (no wells, frame only); 10 frames

## Individual Access 96 Well Skirted Optical Bottom PCR Plate



4ti-0970/RA | Individual Access 96 Well Skirted Optical Bottom PCR Plate | Well Detail

96 individual tubes in plate format, low profile, flat optical bottom, 0.1ml clear polypropylene tubes, black rigid polycarbonate frame, cut corner H1, working volume: <100µl, total well capacity: 180µl

- Available barcoded on request

## Overview

96 well, fully skirted, low profile format with each tube inserted separately into the plate frame, allowing for selection and removal of individual tubes from the plate. Each tube clicks into place in the frame ensuring tubes are secure once inserted.

We have now extended our Individual Access range to include PCR plates with optically clear flat bottom wells for microscopy applications. The Individual Access 96 Well Skirted Optical Bottom PCR Plates (next to their counterpart within our FrameStar® range, 4ti-0970) are currently unique in the market, being suitable for use in both microscopy and PCR, for example, when single cell sorting is followed by molecular biology applications such as qPCR and sequencing.

Due to their flat bottoms and stackability, these plates are well suited for small sample volume storage (such as compound libraries), with no risk of damaging the seal of the plate below. Additionally, the small well volume enables excellent sample recovery. The rigid polycarbonate skirt of this design eliminates warping and distortion during PCR. Together with the SBS footprint, this makes the plate suitable for use with robotic systems, ideal for both small and high throughput labs. Empty frames are available for tubes to be transferred to. The frames can be re-used multiple times, depending on the application.

## Key Features

- **Quality**
  - Free from DNase, RNase, human genomic DNA, and endotoxin/pyrogen
- **Tubes**
  - Individually removable from the rigid frame, while the rest of the tubes can remain in storage, reducing freeze-thawing of the whole plate
  - Thin walled tubes are made from PP for optimal results in (q)PCR whilst also being suitable for storage and incubation
  - <100µl working volume, <180µl total well capacity
- **Frame**
  - Rigid polycarbonate frame provides mechanical stability of the plate
  - Alphanumeric grid reference to aid well and sample identification
- **Use**
  - Suitable for microscopy and small volume sample storage
  - Ideal for use with robotic systems
  - Fewer transfer steps as the same tube can be used for microscopy, (q)PCR and storage

- Each tube can still be separated after sealing
- Each tube can be individually heat sealed using the Individual Access Pierce Heat Seal Strong, such as the contents of each tube is left secure from cross contamination and evaporation for storage and transfer
- **Options**
  - Also available as a FrameStar plate (4ti-0970) with fixed wells
  - Empty frames are available for tubes to be transferred to; frames can be re-used multiple times, depending on the application
  - We also offer customization of the Individual Access Plates such as color coding of the individual wells; please contact an expert for details
  - Available barcoded upon request; learn more about our barcoding options
  - The plate can be sealed in one step using Individual Access Pierce Heat Seal Strong (4ti-05381/RA) on the Semi-Automated Sheet Heat Sealer (using the 59-2005 Individual Access adapter), resulting in individually sealed tubes with pierceable seals to allow for sample access

## Specifications

Parameter	Individual Access 96 Well Skirted Optical Bottom PCR Plate
Plate length	127.76 ± 0.25mm
Plate width	85.48 ± 0.25mm
Plate height	15.50 ± 0.25mm
Well depth	12 ± 0.10mm
Well diameter	5.46 ± 0.10mm
Total well capacity	180µl
Working volume	<0.1ml (100µl)
Distance to center of A1 from top edge	11.24 ± 0.25mm
Distance to center of A1 from left edge	14.38 ± 0.25mm
Pitch (distance between A1 and A2)	9.00mm

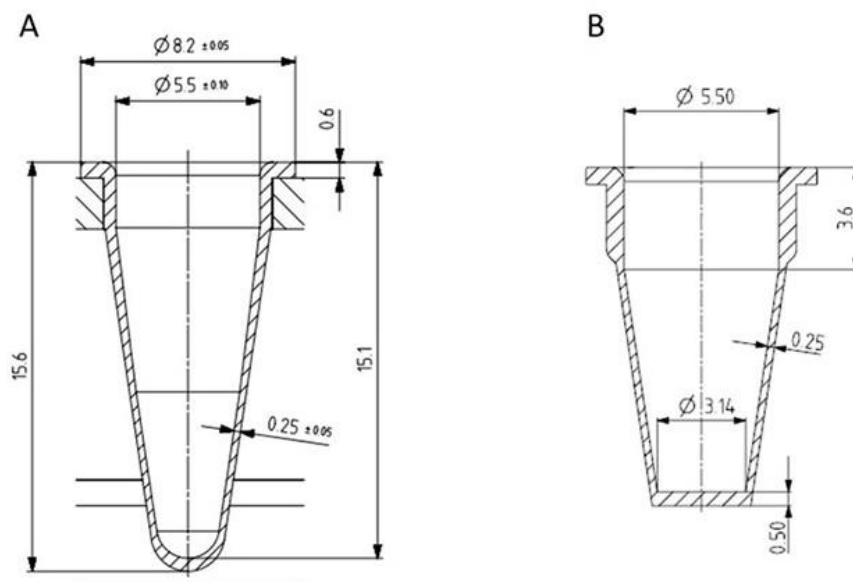


Figure 1

- **Figure 1** (click on image to expand) illustrates the differences in tube format between the standard conical PCR tube and the flat bottom tubes
- The surface area of the optical base is 7.74mm<sup>2</sup>, with a thickness of 0.5 mm
- The total volume of a conical well is 0.2ml compared to 0.18ml for flat bottom tubes
- The primary target application for optical bottom plates is assays that require the use of microscopy, for example, work with single cells including fluorescent imaging and cell sorting

## Compatibility

- **AGILENT/STRATAGENE**
  - **Thermal Cyclers (96 well block):** Robocycler Gradient
  - **qPCR Cyclers (96 well block):** AriaMx
- **BIO-RAD**
  - **Thermal Cyclers (96 well block):** C1000 Touch | S1000
  - **qPCR Cyclers (96 well block):** CFX96 Touch | CFX96 Touch Deep Well | CFX connect
- **BIO-RAD MJ RESEARCH**
  - **Thermal Cyclers (96 well block):** PCT100™/200™/220™/221™/225™/240™
  - **qPCR Cyclers (96 well block):** Chromo4™ | Opticon2™
- **EPENDORF**
  - **Thermal Cyclers (96 well block):** MasterCycler® ep/ep gradient/Pro/Pro S/nexus/nexus gradient/nexus SX1/nexus GSX1
  - **qPCR Cyclers (96 well block):** MasterCycler™ ep realplex
- **PEQLAB/VWR**
  - **Thermal Cyclers (96 well block):** peqSTAR 96X
- **SENSOQUEST**
  - **Thermal Cyclers (96 well block):** Labcycler
- **TECHNE**
  - **Thermal Cyclers (96 well block):** TC412 | TC512 | Genius | Genius Quad | Touchgene | Touchgene Gradient | Flexigene
  - **qPCR Cyclers (96 well block):** Quantica

For recommended plate options depending on manufacturer, block type, and instrument please refer to the Azenta Life Sciences Plate Instrument Compatibility Table.

Ordering Information

Use these part numbers to request a quote, a sample or to contact an expert:

Part number	Description
<b>Individual Access 96 Well Skirted Optical Bottom PCR Plate</b> 96 individual tubes in plate format, low profile, flat optical bottom, 0.1ml clear polypropylene tubes, black rigid polycarbonate frame, cut corner H1, working volume: <100µl, total well capacity: 180µl	
4ti-0970/RA	clear tubes, black frame; 50 plates
4ti-0970/RA-F	black frame (no tubes, frame only); 10 frames

Individual Access 96 Well Skirted Flat Bottom PCR Plate, 2D Coded



4ti-0975/RA | Individual Access 96 Well Skirted Flat Bottom PCR Plate, 2D Coded | Bottom Detail

96 individual tubes in plate format, low profile, flat bottom 2D coded, 0.1ml clear polypropylene tubes, white rigid polycarbonate frame, linear barcoded, cut corner H1, working volume: <100µl, total well capacity: 180µl

Overview

96 well, fully skirted, low profile format with each tube inserted separately into the plate frame, allowing for selection and removal of individual tubes from the plate. Each tube clicks into place in the frame ensuring tubes are secure once inserted.

We have now extended our Individual Access range to include PCR plates with 2D coded flat bottoms for applications that require superior sample tracking. In applications where it is essential for samples to be tracked throughout their processing, e.g. for diagnostic assays on clinical samples, tube labeling is a far safer and reliable method compared to cap or seal labeling (which can be misplaced, damaged or rendered unreadable after piercing).

Our plates have a unique 2D code printed on the bottom of the well and a linear barcode on the side of the plate to allow for identification of both the plate and individual tubes within. The rigid polycarbonate skirt of this design eliminates warping and distortion during PCR. Together with the



SBS footprint, this makes the plate suitable for use with robotic systems, ideal for both small and high throughput labs.

Empty frames are available for tubes to be transferred to. The frames can be re-used multiple times, depending on the application. Sample tubes can be identified by the unique 2D code on the base of the wells, removed from the Individual Access plate quickly and easily, and moved to another Individual Access frame for downstream processing or storage.

Quick selection of desired tubes reduces the time needed for the sample plate to be out of the freezer and therefore reduces the chance of other wells defrosting in the meantime. Flat bottom PCR plates can be stacked, allowing for optimal use of freezer space as multiple plates can be housed in the same space as a storage rack. The 2D codes on the bottom of the wells can be read by most 2D datamatrix readers including Azenta Life Sciences Whole Rack Scanners. The codes are highly scratch resistant and can withstand cold storage (-80°C), temperatures up to 100°C and solvents such as DMSO. 2D datamatrix codes utilize data redundancy so even if codes are partly destroyed, the information will still be retained. Each code is tested for readability and guaranteed to be unique.

## **Key Features**

- **Quality**
  - Free from DNase, RNase, human genomic DNA, and endotoxin/pyrogen
- **Tubes**
  - Individually removable from the rigid frame, while the rest of the tubes can remain in storage, reducing freeze-thawing of the whole plate
  - Thin walled tubes are made from PP for optimal results in (q)PCR whilst also being suitable for storage and incubation
  - <100µl working volume, <180µl total well capacity
- **Frame**
  - Rigid polycarbonate frame provides mechanical stability of the plate
  - These plates are labeled with linear Code 128-format barcodes to aid identification and traceability for your samples
  - Alphanumeric grid reference to aid well and sample identification
- **Use**
  - Suitable for small volume sample storage, allowing for optimal use of freezer space as multiple plates can be housed in the same space as a storage rack
  - Ideal for use with robotic systems
  - Fewer transfer steps as the same tube can be used for microscopy, (q)PCR and storage
  - Each tube can be individually heat sealed using the Individual Access Pierce Heat Seal Strong, such as the contents of each tube is left secure from cross contamination and evaporation for storage and transfer
  - Each tube can still be separated after sealing
- **Options**
  - Also available as a Individual Access optical bottom plate (4ti-0970/RA) with black frame, ideal for microscopy and PCR
  - Empty frames are available for tubes to be transferred to; frames can be re-used multiple times, depending on the application
  - We also offer customization of the Individual Access Plates such as color coding of the individual wells; please contact an expert for details
  - The plate can be sealed in one step using Individual Access Pierce Heat Seal Strong (4ti-05381/RA) on the Semi-Automated Sheet Heat Sealer (using the 59-2005 Individual Access adapter), resulting in individually sealed tubes with pierceable seals to allow for sample access



## Specifications

Parameter	Individual Access 96 Well Skirted Flat Bottom PCR Plate, 2D Coded
Plate length	127.76 ± 0.25mm
Plate width	85.48 ± 0.25mm
Plate height	15.50 ± 0.25mm
Well depth	12 ± 0.10mm
Well diameter	5.46 ± 0.10mm
Total well capacity	180µl
Working volume	<0.1ml (100µl)
Distance to center of A1 from top edge	11.24 ± 0.25mm
Distance to center of A1 from left edge	14.38 ± 0.25mm
Pitch (distance between A1 and A2)	9.00mm
<b>Code</b>	
Size	12 x 12 px; 2 x 2mm
Format	white on black
Content	8 digit numeric

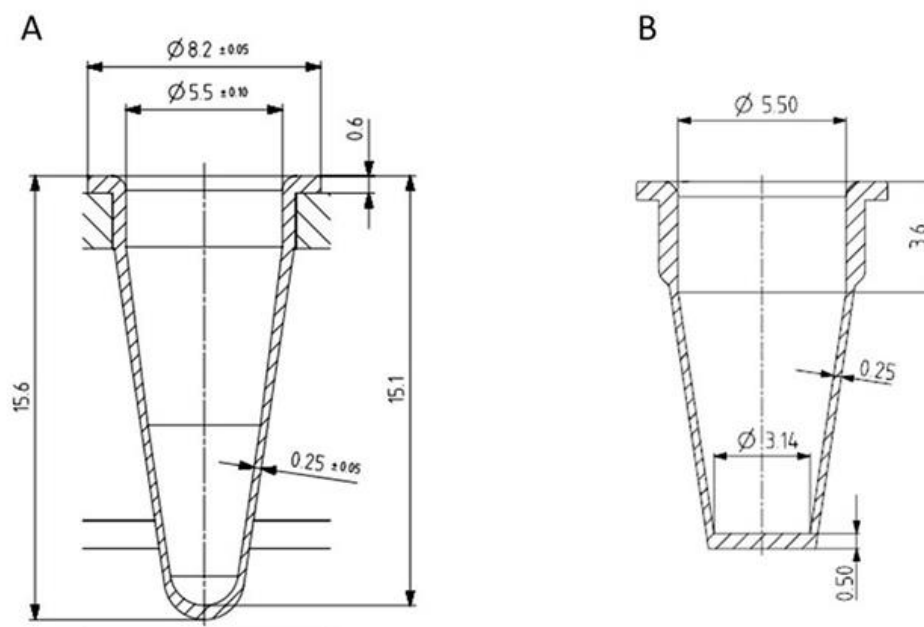


Figure 1

**Figure 1** (click on image to expand) illustrates the differences in tube format between the standard conical PCR tube and the flat bottom tubes

- The surface area of the optical base is 7.74mm<sup>2</sup>, with a thickness of 0.5mm
- The total volume of a conical well is 0.2ml compared to 0.18ml for flat bottom tubes

### Compatibility

- **AGILENT/STRATAGENE**
  - **Thermal Cyclers (96 well block):** Robocycler Gradient
  - **qPCR Cyclers (96 well block):** AriaMx
- **BIO-RAD**
  - **Thermal Cyclers (96 well block):** C1000 Touch | S1000
  - **qPCR Cyclers (96 well block):** CFX96 Touch | CFX96 Touch Deep Well | CFX connect
- **BIO-RAD MJ RESEARCH**
  - **Thermal Cyclers (96 well block):** PCT100™/200™/220™/221™/225™/240™
  - **qPCR Cyclers (96 well block):** Chromo4™ | Opticon2™
- **EPPENDORF**
  - **Thermal Cyclers (96 well block):** MasterCycler® ep/ep gradient/Pro/Pro S/nexus/nexus gradient/nexus SX1/nexus GSX1
  - **qPCR Cyclers (96 well block):** MasterCycler™ ep realplex
- **PEQLAB/VWR**
  - **Thermal Cyclers (96 well block):** peqSTAR 96X
- **SENSOQUEST**
  - **Thermal Cyclers (96 well block):** Labcycler
- **TECHNE**
  - **Thermal Cyclers (96 well block):** TC412 | TC512 | Genius | Genius Quad | Touchgene | Touchgene Gradient | Flexigene
  - **qPCR Cyclers (96 well block):** Quantica

For recommended plate options depending on manufacturer, block type, and instrument please refer to the Azenta Life Sciences Plate Instrument Compatibility Table.

## Ordering Information

Use these part numbers to request a quote, a sample or to contact an expert:

Part number	Description
<b>Individual Access 96 Well Skirted Flat Bottom PCR Plate, 2D Coded</b> 96 individual tubes in plate format, low profile, flat bottom 2D coded, 0.1ml clear polypropylene tubes, white rigid polycarbonate frame, linear barcoded, cut corner H1, working volume: <100µl, total well capacity: 180µl	
4ti-0975/RA	clear tubes, white frame; 50 plates
4ti-0975/RA-F*	white frame (no wells, frame only); 10 frames

\*Please note, /SBC must be added to 4ti-0960/RA-F to include a standard single barcode

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<https://azenta.nt-rt.ru/> || [aez@nt-rt.ru](mailto:aez@nt-rt.ru)