



**NIPPON Genetics EUROPE**  
Innovation For You

# Laboratory Plastic

Highest quality for best results

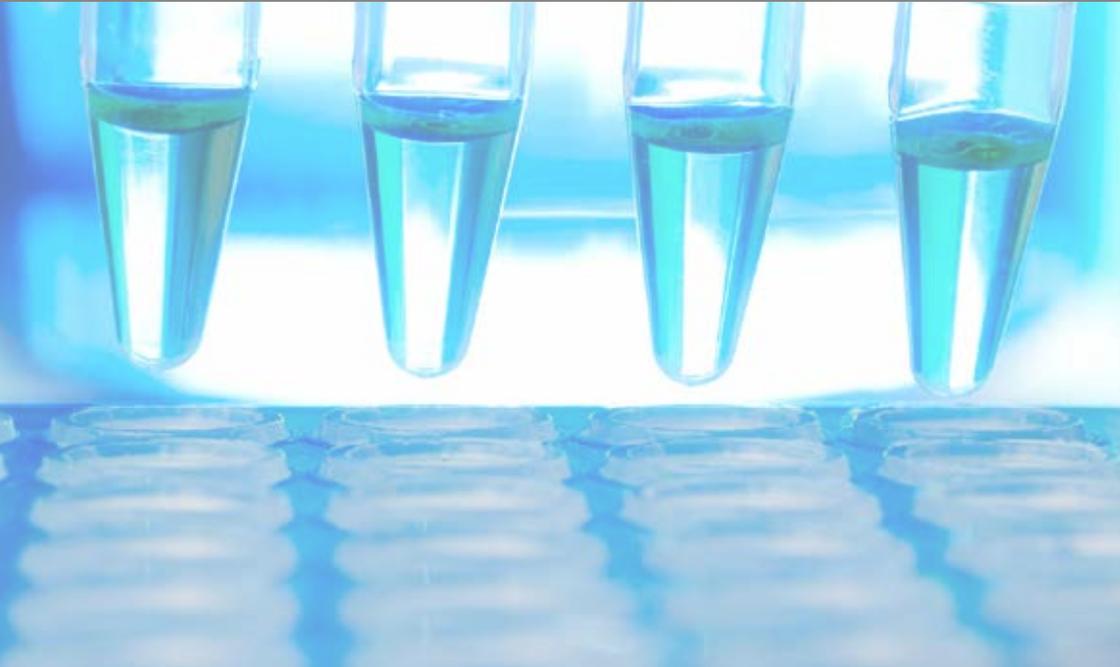
Filter Tips

PCR Plastic

High-Throughput Plastic

Accessories

Storage Tubes



[www.nippongenetics.eu](http://www.nippongenetics.eu)





## WE ARE NIPPON GENETICS EUROPE

NIPPON Genetics EUROPE is a Japanese-German life-tech company, which focuses on the development of cutting edge products for molecular and cell biology laboratories. We have over 30 years experience in the life-tech sector with offices in Tokyo and Kyoto, in Japan, as well as in Dueren, in Germany.

NIPPON Genetics EUROPE GmbH was founded in 2004. We are a growing group of highly motivated people with a strong background in life-science research. In the past few years, we have become a team that can support you not only with innovative products but also with advice on applications. This background also allows us to understand your needs and to develop new and exciting products for you.

” **The foundation of our business is contribution** ”

Kazuo Yamazaki  
CEO of NIPPON Genetics Co. Ltd in Japan

## OUR WEBSITE

Our website is the central information source for you! Here you can find all the information you need about our products. Whether you need a manual, MSDS, safety report or other material, just enter our website and download everything you need. We are always happy to receive your feedback about our service and products.

 [www.nippongenetics.eu](http://www.nippongenetics.eu)





## PLASTIC QUALITY - MORE THAN JUST PLASTIC

The use of high quality plastic in scientific applications is a fundamental element for achieving reliable scientific results. NIPPON Genetics EUROPE provides best laboratory consumables. From filter tips to PCR plastic and storage tubes, we offer the tools to make your everyday laboratory work as easy and successful as possible.

All of our laboratory plastic is made from best suited laboratory materials. The manufacturing processes of the different types of consumables are subject to quality control of highest priority. Our filter tips, PCR plastic and storage tubes can handle large temperature differences and fluctuations and are guaranteed free from DNase, RNase and genomic DNA.

## CUSTOMER TESTIMONIAL



We use the plastic already 2 years and are very satisfied. The price is unbeatable, and the quality compared to other expensive plastic from other manufacturers is comparable. Impeccable, clear recommendation.

**Birgit Flechtner**  
Institute for Zoology  
Innsbruck University





### **FastGene® Filter Tips**

NIPPON Genetics Europe provides modern, high quality filter tips for best precision and handling. We are offering two filter tip lines, the FG-FT line and the FG-TP line. The FG-FT line uses an ecological refill system. With these products we ensure a broad range of compatibility and maximum conformity with a large number of pipettes. Quality control is one of our highest priorities. Our tips are free of RNase, DNase or genomic DNA.

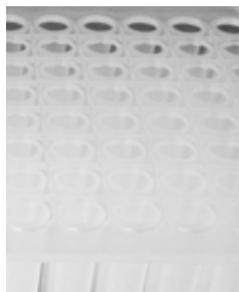
Read more on page 6



### **FastGene® PCR Plastic**

The performance and reproducibility of PCR experiments is significantly influenced by the quality of the used plastic. Find the most suitable PCR plastic - 0.1 ml and 0.2 ml single PCR tubes, 8-well PCR strips or „low-profile“ and „high-profile“ PCR plates, - for your individual needs and perfect compatibility with your thermal cycler.

Read more on page 10



### **FastGene® High-Throughput Plastic**

We offer accessory plastic for high throughput applications. Our High-Throughput plastic includes deep-well plates, elution plates and tip comb plates, compatible with KingFisher™ automated sample purification systems. The accessories are used for the purification of nucleic acids with the help of automatic magnetic separation in high throughput.

Read more on page 16



## OUR PORTFOLIO

### All you need for successful lab-work

Using solid laboratory plastic with non-DNA-binding properties and high temperature tolerance is the everyday basis for delivering highest quality work. We at NIPPON Genetics EUROPE put great emphasis on best lab plastic quality and ensure DNase, RNase and gDNA-free consumables. Our products are compatible with a wide range of common laboratory instruments and devices such as PCR cyclers and pipettes. We offer consumables that are stable, reliable and easy to use.



#### FastGene® Accessories

We offer helpful, high-quality accessories that complement our Laboratory Plastic. The FastGene® Aluminium Rack is „Made in Germany“ and is the perfect cooling device for tubes and plates on ice. The tedious job of opening and closing many PCR tubes belongs to the past, with the FastGene® CapEasy device.

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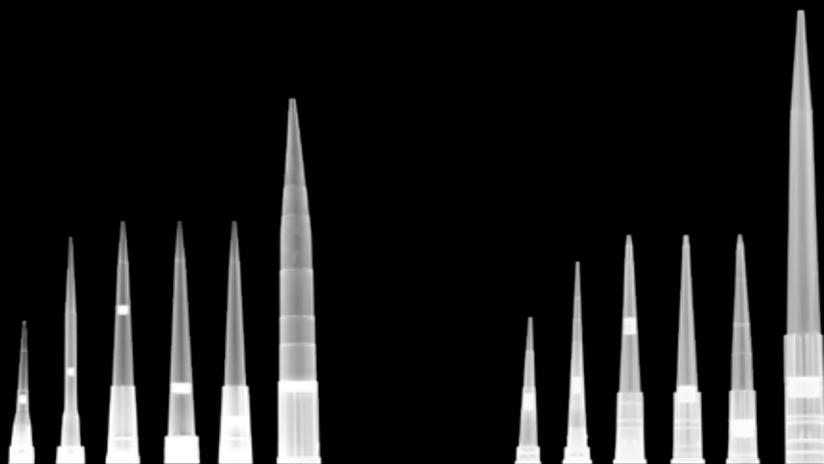
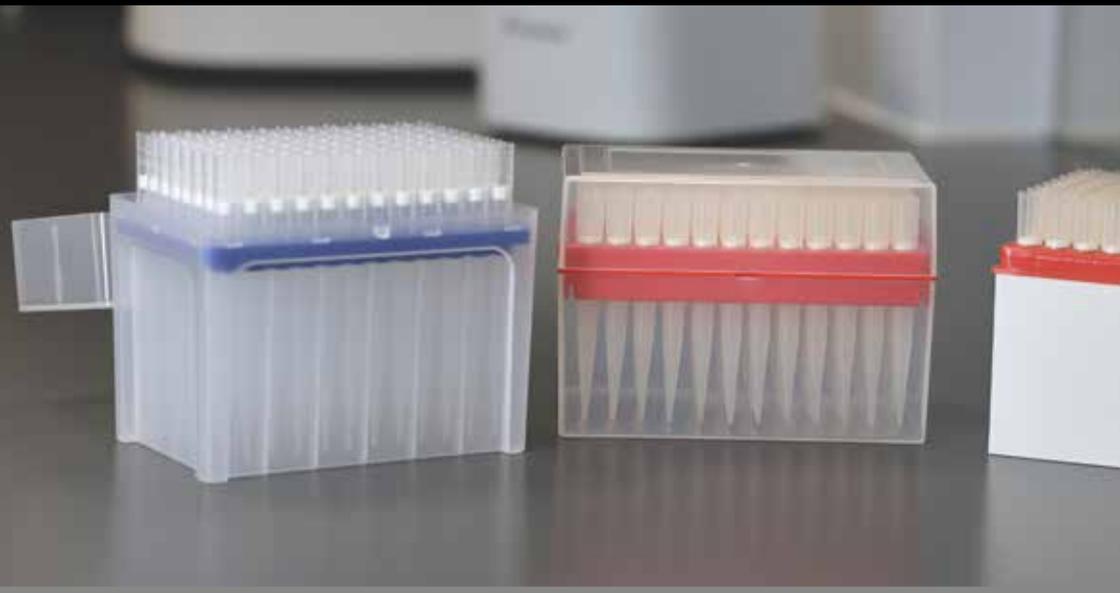


#### FastGene® Storage Tubes and Racks

Our FastGene® Screw Cap Tubes and FastGene® Cryo Tubes allow short-term and long-term storage of your valuable samples. We offer Screw Cap Tubes for two sample volumes, each with five different cap colours. They enable performing secure experiments over a long period of time. Cryo Tubes come in three different volumes and are the optimal solution for a safe and long storage of cryopreserved samples at very low temperature, down to - 191 °C. Both types of FastGene® Storage Tubes can be equipped with 2-D barcode inserts for optimal sample tracking.

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### FastGene® FT line

The FastGene® FG-FT line are modern filter tips that can be used with the ecological Paper Refill System. All filter tip sizes are made from high quality materials and show maximum compatibility and conformity with a large number of pipettes.

### FastGene® TP line

Quality control is one of our highest priorities. This ensures that our FastGene TP Filter Tips are free of faults, such as misplacement of the filter, broken tips, missing tips, etc.. All of our tips are free of RNase, DNase, genomic DNA and proteins. The transparent filter tips make it easy to control the aspirated liquid volume



## FASTGENE® FILTER TIPS

### Innovation for you - Ecological Paper Refill System

We want to drive sustainability and bring more and more ecological thinking and new solutions into the laboratory. Our FastGene® Paper Refill boxes for the FastGene® FG-FT filter tip line are our start into a sustainable future. The paper packaging wrapped around the filter tips refill boxes is secure and stable, preventing pipette tip damage during transport and storage. The ecological footprint of the Paper Refill System is much less when compared to completely new plastic filter tips boxes or other plastic based refill systems.



## CUSTOMER TESTIMONIAL

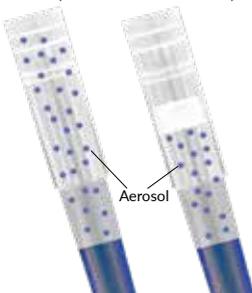


"We have been using the refillable filter tips from Nippon Genetics for a broad spectrum of molecular biology techniques, including NGS and array-CGH. We are impressed by their high manufacturing quality and ease of use. The tips are long and thin and the filter does not come in contact with the liquid even if you fill it to the maximum. They also exhibit minimum retention of liquids. It is very easy to refill the empty tip boxes (spare tips come in pre-filled and sterile racks) and by using that system you produce less plastic waste! We highly recommend these tips to all researchers looking for excellent quality, value-for-money filter tips!"

**D. Palaiologou, PhD**  
Genesis Genoma Lab,  
Chalandri, Greece



Standard Tip      FastGene® Filter Tip



### Perfect protection with filter tips

Filter tips ensure more safety in daily laboratory use. The filter protects the pipette from the inflow of liquids or contaminated aerosols. This not only prolongs the life span of the pipette, but also drastically reduces the likelihood of passing on contaminations from sample to sample, which could potentially lead to falsified results.

# FastGene® FT line



## Ordering information

FastGene® FT line Filter Tips			
Cat. No.	Product	Content	
FG-FT10S	10 µl short	10 racks with 96 tips	
FG-FT10SRF	10 µl short refill	10 refill racks with 96 tips	
FG-FT10L	10 µl long	10 racks with 96 tips	
FG-FT10LRF	10 µl long refill	10 refill racks with 96 tips	
FG-FT20	20 µl	10 racks with 96 tips	
FG-FT20RF	20 µl refill	10 refill racks with 96 tips	
FG-FT100	100 µl	10 racks with 96 tips	
FG-FT100RF	100 µl refill	10 refill racks with 96 tips	
FG-FT200	200 µl	10 racks with 96 tips	
FG-FT200RF	200 µl refill	10 refill racks with 96 tips	
FG-FT1000	1000 µl	10 racks with 96 tips	
FG-FT1000RF	1000 µl refill	10 refill racks with 96 tips	

Compatibility list		FastGene® FT line Filter Tips					
		FG-FT 10S	FG-FT 10L	FG-FT 20	FG-FT 100	FG-FT 200	FG-FT 1000
Single Channel Pipettes	Eppendorf (Reference, Research V)	0.5-10 µl	0.5-10 µl	2-20 µl	10-100 µl	20-200 µl	100-1000 µl
	Finnpipette (Digital, Focus)	0.2-2 µl 0.5-10 µl	0.2-2 µl 0.5-10 µl	2-20 µl	5-50 µl 10-100 µl	20-200 µl	100-1000 µl
	Biohit (Proline)	0.1-2.5 µl 0.5-10 µl	0.1-2.5 µl 0.5-10 µl	2-20 µl	5-50 µl 10-100 µl	20-200 µl	100-1000 µl
	Gilson (Pipetman)	P-2 P-10	P-2 P-10	P-20	P-100	P-200	P-1000
	Nichiryo (Nichipet EX)	0.2-2 µl 0.5-10 µl	0.2-2 µl 0.5-10 µl	2-20 µl	10-100 µl	20-200 µl	100-1000 µl
Multi Channel Pipettes	Finnpipette (Digital Multi)	0.5-10 µl	---	---	5-50 µl	---	---
	Biohit (Proline Multi)	0.5-10 µl	---	---	5-50 µl	---	---
	Gilson (Multi)	---	---	---	---	---	---

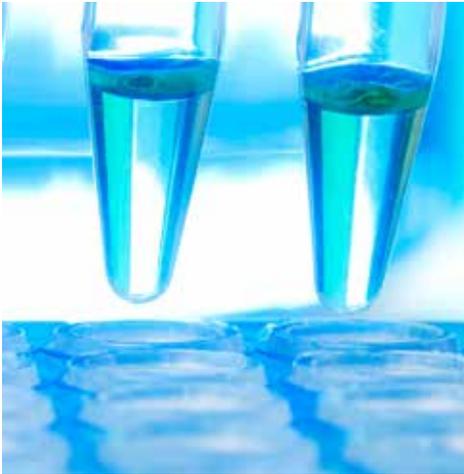
# FastGene® TP line



## Ordering information

FastGene® TP line Filter Tips		
Cat. No.	Product	Content
FG-TP-10	10 µl short	10 racks with 96 tips
FG-TP-10L	10 µl long	10 racks with 96 tips
FG-TP-20	20 µl	10 racks with 96 tips
FG-TP-100	100 µl	10 racks with 96 tips
FG-TP-200	200 µl	10 racks with 96 tips
FG-TP-1000	1000 µl	10 racks with 96 tips

Compatibility list		FastGene® TP line Filter Tips					
		FG-TP-10	FG-TP-10L	FG-TP-20	FG-TP-100	FG-TP-200	FG-TP-1000
Single Channel Pipettes	Eppendorf (Reference, Research V)	0.5-10 µl	0.1-2,5 µl 0.5-10 µl	2-20 µl	10-100 µl	20-200 µl	100-1000 µl
	Finnpipette (Digital, Focus)	1-10 µl 2-20 µl	1-10 µl 2-20 µl	2-20 µl 10-100 µl	10-100 µl	20-200 µl	100-1000 µl
	Gilson (Pipetman)	P-2 P-10	P-2 P-10	P-20	P-100	P-200	P-1000
	Rainin (SL-PL-Series)	0.5-10 µl	0.5-10 µl	2-20 µl	10-100 µl	20-200 µl	100-1000 µl
	Rainin (XLS-Series)	0.5-10 µl	0.5-10 µl	20-200 µl	20-200 µl	20-200 µl	100-1000 µl
	Brand	0.1-2.5 µl 0.5-10 µl	0.1-2.5 µl	2-20 µl 5-50 µl 10-100 µl	---	20-200 µl	100-1000 µl
	DragonLab	0.5-10 µl	0.5-10 µl	2-20 µl	10-100 µl	20-200 µl	100-1000 µl
	SOCOREX	0.5-10 µl	0.5-10 µl	20-200 µl	20-200 µl	20-200 µl	100-1000 µl
Multi Channel Pipettes	Eppendorf (12-channel Multi)	0.5-10 µl	0.5-10 µl	---	10-100 µl	30-300 µl	---
	Finnpipette (12-channel Multi)	0.5-10 µl	0.5-10 µl	---	10-100 µl	50-300 µl	---
	Gilson (Multi)	1-10 µl	1-10 µl	2-20 µl	20-200 µl	20-200 µl	---
	Brand (Multi)	0.5-10 µl	0.5-10 µl	---	10-100 µl	30-300 µl	---
	DragonLab (Multi)	0.5-10 µl	0.5-10 µl	5-50 µl	50-300 µl	50-300 µl	---



### FastGene® PCR Tubes

The FastGene® PCR Single Tubes and 8-well strips fulfill the highest standards of quality. They are available as 0.1 ml volume tubes and 0.2 ml volume tubes and can be closed with different kinds of cappings. Although the tubes are very thin-walled and can therefore conduct heat very quickly and effectively, the material is extremely stable and robust.



### FastGene® PCR Plates

The FastGene® PCR Plates are manufactured from ultra pure polypropylene and are compatible with common thermal cyclers from leading manufacturers. The thin-walled design optimises heat transfer to the inside of the tube shaped wells. A very stringent quality control procedure guarantees a high experimental reproducibility of all PCR plates.



## FASTGENE® PCR PLASTIC

### Get the best, reproducible PCR results

Over the past years PCR has become one of the most often used and best characterized bioenzymatic experiments. The performance and reproducibility of PCR results is significantly influenced by plastic quality. Our FastGene® PCR tubes and plates fulfill the highest manufacturing standards, made from ultra pure polypropylene.



## CUSTOMER TESTIMONIAL



„The lid of the FastGene® 0.2 ml PCR tubes worked perfectly with the lock mechanism fo the RotorGene® Q MDx, although different from the original. The fluorescence of the probes in the reaction are measured at the tip of the tubes. We can recommend to replace the original tubes for the here tested fluorescent probes without any restriction. “

**Dr. Birgit Klinkert**  
Ardeypharm GmbH  
Herdecke, Germany



Before PCR



After PCR

### No Evaporation - PCR tube sealing test

The evaporation of samples is a well-known error factor depending on the quality of the PCR plastic. This is very important, especially for users that perform low volume PCR (5 - 10 µl). The evaporation test before and after a PCR experiment of FastGene® PCR Tubes proofs that they are tightly sealed and keep the entire PCR volume inside the tube. The PCR tubes are intensively tested, under very stringent conditions.



### FastGene® 0.1 ml tubes and 0,1 ml 8-well strips

For 0.1 ml PCR tube size we offer colorless single tubes as well as colorless or white 8-well strips, either with attached individual flat caps or flat lid strips. They are suitable for all standard PCR and qPCR applications, starting at a reaction volume of 5  $\mu$ l. All tubes and strips are free from RNases, DNases and genomic DNA and have an extremely thin-walled and tight design.



### FastGene® 0.2 ml tubes and 0.2 ml 8-well strips

For 0.2 ml PCR tube size we offer colorless single tubes with flat caps or domed caps as well as colorless 8-well strips, either with attached individual flat caps/domed caps or flat/domed lid strips. They are suitable for all standard PCR and qPCR applications, starting at a reaction volume of 5  $\mu$ l. All tubes and strips are free from RNases, DNases and genomic DNA and have an extremely thin-walled and tight design.

FastGene® PCR tubes  
Compatibility List



All tubes are compatible with a wide range of thermal cycles from leading manufacturers. Have a look at our website for a complete and detailed compatibility list of the FastGene® PCR tubes.

## Ordering information

Cat. No.	Product		Content
<b>FastGene® 0.1 ml PCR tubes</b>			
FG-011F	0.1 ml PCR single tubes with flat caps		1000 tubes
FG-017FC	0.1 ml PCR 8-well strips and flat cap strips		120 strips each
FG-018	0.1 ml PCR 8-well strips		120 strips
FG-018WF	0.1 ml PCR 8-well strips with single flat caps		120 strips
FG-008FCP	0.1 ml flat cap strips		120 strips
FG-019FC	0.1 ml PCR 8-well white tube strips with flat cap strips		125 strips each
<b>FastGene® 0.2 ml PCR tubes</b>			
FG-021F	0.2 ml PCR single tubes with flat caps		1000 tubes
FG-021D	0.2 ml PCR single tubes with domed caps		1000 tubes
FG-088WF	0.2 ml PCR 8-well strips with single flat caps		120 strips
FG-088WD	0.2 ml PCR 8-well strips with single domed caps		120 strips
FG-028	0.2 ml PCR 8-well strips without caps		120 strips
FG-008FC	0.2 ml flat cap strips		120 strips
FG-008DC	0.2 ml domed cap strips		120 strips
FG-016FC	0.2 ml PCR 8-well strips and flat cap strips		120 strips each
FG-016DC	0.2 ml PCR 8-well strips and domed cap strips		120 strips each



## CUSTOMER TESTIMONIAL

„Very high quality. The Lid sits well, and the removal is easy. You get exactly what you want.“

Online Customer





## FastGene® PCR plates

We offer non-skirted, semi-skirted and full-skirted 96-well PCR plates in different shapes and sizes as well as a 384-well plate, for various PCR and qPCR applications. The plates are compatible with a wide range of thermal cyclers from leading manufacturers. Have a look at our website for a complete and detailed compatibility list of the FastGene PCR plates.

### FastGene® PCR plate Compatibility List



#### FG-170225

- 96 wells
- Normal-profile plate
- Non-skirted
- Easy to cut
- 25 plates



#### FG-170350

- 96 wells
- Low-profile plate
- Non-skirted
- Stable design
- 50 plates





### FG-190250

- 96 wells
- Normal-profile plate
- Semi-skirted
- 50 plates



### FG-200250

- 96 wells
- Normal-profile plate
- Semi-skirted
- FROSTED ABI® Style
- 50 plates



### FG-210250

- 96 wells
- Low-profile plate
- Semi-skirted
- Roche®/Bio-Rad® Style
- For LightCycler™
- 50 plates



### FG-03890-50

- 96 wells
- Low-profile plate
- Semi-skirted
- For ABI 7500 FAST
- 50 plates



### FG-180250

- 96 wells
- Low-profile plate
- Full-skirted
- 50 plates



### FG-300150

- 384 wells
- Full-skirted
- 50 µl volume
- For ABI 7500 FAST
- 50 plates

### FG-3110MS

- Silicon sealing mat
- For 384-well plate
- Soft structure
- 10 mats

## Ordering information

Cat. No.	Product	Content
<b>FastGene® PCR plates</b>		
FG-170225	FastGene® 96-well Plate, Normal-profile plate, Non-skirted	25 plates
FG-170350	FastGene® 96-well Plate, Low-profile plate, Non-skirted	50 plates
FG-190250	FastGene® 96-well Plate, Normal-profile plate, Semi-skirted	50 plates
FG-200250	FastGene® 96-well Plate FROSTED ABI® style, Normal-profile plate, Semi-skirted	50 plates
FG-210250	FastGene® White 96-well Plate Roche® style, Low-profile plate, Semi-skirted	50 plates
FG-03890-50	FastGene® Fast 96-well Plate, Low-profile plate, Semi-skirted	50 plates
FG-180250	FastGene® 96-well Plate, Low-profile plate, Full-skirted	50 plates
FG-300150	FastGene® 384-well Plate, Full-skirted, Volume 50 µl	50 Plates
FG-3110MS	FastGene® Silicon sealing mat (soft)	10 Mats soft



## FASTGENE® HIGH-THROUGHPUT PLASTIC

### Plastic Accessories for high throughput applications



Our High-Throughput plastic accessories include deep-well plates, elution plates and tip comb plates and are compatible with KingFisher™ automated sample purification systems. The accessories are used for the purification of nucleic acids with the help of automatic magnetic separation in high throughput.



#### FastGene® 96 Deep well Plate for King fisher™

- Deep well plates developed for magnetic-bead based, automated nucleic acid purification workflows
- High quality polypropylene (PP)
- No nucleic acid or protein adherence
- Excellent recovery of magnetic beads due to well-design
- Well shape: Deep wells (up to 2.2 ml storage volume per well), square wells, V-bottom
- 50 plates per box



#### FastGene® 96 Deep Tip Comb for King fisher™

- Tip combs for magnetic separation platforms
- Serve as a cover for automation platform magnets and prevent sample carryover during purification procedure
- High quality polypropylene (PP)
- No nucleic acid or protein adherence
- Excellent recovery of magnetic beads due to well-design
- Size: 127.2 mm x 85.2 mm x 43.9 mm
- Well shape: round wells, V-bottom
- 100 tip combs per box



#### FastGene® 96 Elution Plate for King fisher™

- Elution plates developed for magnetic-bead based, automated nucleic acid purification workflows
- Low binding - Medical-grade quality polypropylene (PP)
- No nucleic acid or protein adherence
- Size: 127.5 mm x 85.35 mm x 15.1 mm
- Well shape: 0,5 ml, square wells, V-bottom
- 50 plates per box

### Ordering information

Cat. No.	Product	Content
FastGene® High-Throughput Plastic		
FG-250150	FastGene® 96 Deep-well Plate for KingFisher™	50 plates
FG-2502100	FastGene® 96-well Tip Comb for KingFisher™	100 tip combs
FG-250350	FastGene® 96-well Elution Plate for KingFisher™	50 plates



## ACCESSORIES

### Helpful complements for your laboratory plastic

High-quality accessories can be supportive in routine laboratory work. Accompany PCR tubes and PCR plates with the „Made in Germany“ FastGene® Aluminium Rack, the perfect cooling device on ice. Seal or open lids of 8-well (or 12-well) PCR tube strips simultaneously, with the FastGene® CapEasy.



#### FastGene® Aluminium Rack

The FastGene® Aluminium Rack is a high quality rack holding 1x 96 well PCR plate (semi or non skirted), 6x reaction tubes and 8x PCR tubes. The premium quality aluminium block keeps plates and tubes cool and secure on ice. The high thermal conductivity of aluminium allows reliable, fast and uniform cooling of plates and tubes, which is especially important for sensitive samples, such as PCR enzymes. Keep your samples safe and secure on ice and improve your results - no more tipping over tubes in the ice box and getting ice contaminations.



#### FastGene® CapEasy

The CapEasy was created to keep your daily labwork simple. Sealing or removing the caps on 8-well and 12-well PCR strip tubes can often lead to loss of sample, cross contamination, and sore fingers. This can be avoided by using the CapEasy Tool. The uniformly distributed pressure ensures perfect sealing of all wells regardless if domed or flat lids are used. When access to the contents of the strip tubes is needed, removing the lids is done in a single smooth motion without the chance of knocking the sample out of the tube.

#### Ordering information

Cat. No.	Product	Content
<b>FastGene® Accessories</b>		
FG-AR01	FastGene® Aluminium Rack	1 rack
FG-CDC02	FastGene® CapEasy	1 device



### FastGene® Screw Cap Tubes

The FastGene® Screw Cap Tubes come in 5 different cap colours to enable easy sample differentiation and sorting. Dark tubes for protecting the sample from light are also available. The tubes were designed to tolerate very high temperature fluctuations from -80 °C to 121 °C. They come in two sizes to accommodate two different sample volumes. The large tubes are able to store 2 ml, while the small tubes have a volume of 0.5 ml. Both versions of the FastGene® Screw Cap Tubes have a convex inlay that enables the introduction of FastGene® 2D barcode inserts for easy tracking of stored tubes.



### Packaging

The FastGene® Screw Cap Tubes come in small packaging units (25 tubes per bag) to prevent contaminations.



### Tube Racks

The FastGene® Tube Rack can hold 48 tubes and is SBS format compatible.



## FASTGENE® STORAGE TUBES AND RACKS

### Safe storage of your valuable samples

The storage of prokaryotic and eukaryotic cells gives the researcher the possibility to perform experiments over an extended time period and save cells that delivered experimental success. Our FastGene® Screw Cap Tubes and FastGene® Cryo Tubes allow short-term and long-term storage of your valuable samples. They enable performing long-term experiments, that are safe, secure and easily trackable. Both types of FastGene® Storage Tubes can be equipped with 2-D barcode inserts for optimal sample organization.



### Ordering information

Cat. No.	Product	Description	Cap	Content
<b>FastGene® Screw Cap Tubes</b>				
FG-SCT05-S	0.5 ml Screw Cap Tubes	clear tube, natural colour cap, sterilized	●	500 tubes (20 x 25 tubes)
FG-SCT05-RS	0.5 ml Screw Cap Tubes	clear tube, red colour cap, sterilized	●	500 tubes (20 x 25 tubes)
FG-SCT05-GS	0.5 ml Screw Cap Tubes	clear tube, green colour cap, sterilized	●	500 tubes (20 x 25 tubes)
FG-SCT05-BS	0.5 ml Screw Cap Tubes	clear tube, blue colour cap, sterilized	●	500 tubes (20 x 25 tubes)
FG-SCT05-YS	0.5 ml Screw Cap Tubes	clear tube, yellow colour cap, sterilized	●	500 tubes (20 x 25 tubes)
FG-SCT05-SHS	0.5 ml Screw Cap Tubes	dark tube with light protection, sterilized	●	500 tubes (20 x 25 tubes)
FG-SCT20-S	2 ml Screw Cap Tubes	clear tube, natural colour cap, sterilized	●	500 tubes (20 x 25 tubes)
FG-SCT20-RS	2 ml Screw Cap Tubes	clear tube, red colour cap, sterilized	●	500 tubes (20 x 25 tubes)
FG-SCT20-GS	2 ml Screw Cap Tubes	clear tube, green colour cap, sterilized	●	500 tubes (20 x 25 tubes)
FG-SCT20-BS	2 ml Screw Cap Tubes	clear tube, blue colour cap, sterilized	●	500 tubes (20 x 25 tubes)
FG-SCT20-YS	2 ml Screw Cap Tubes	clear tube, yellow colour cap, sterilized	●	500 tubes (20 x 25 tubes)
FG-SCT20-SHS	2 ml Screw Cap Tubes	dark tube with light protection, sterilized	●	500 tubes (20 x 25 tubes)
FG-SCR-RC	Tube Rack	Empty rack (red)	---	10 Racks for 48 tubes
FG-SCR-2D	2D Inserts	2D barcode Inserts	---	500 pcs.



## FastGene® Cryo Storage Tubes

The FastGene® Cryo Tubes are the optimal solution for a safe and long storage of cryopreserved samples. Three different sizes with 0.5 ml, 1 ml and 2 ml volume, the choice of an external or internal lid and the possibility of introducing a FastGene® 2-D barcode offer the right tube for every demand. The Cryo Tubes are self-standing and extra protected against leakage. They can be stored in suitable FastGene® Cryo Racks, which are SBS format compatible. The SBS format is widely used in an automated environment.



### 2-D-Inserts

The FastGene® Cryo Tubes have a perfect tube inlay at the bottom that enables the introduction of FastGene® 2-D inserts with barcode.



### Cryo Tube Racks

The FastGene® Cryo Tube Rack can hold 40 tubes and is SBS-format compatible.

## Ordering information

Cat. No.	Product	Content
<b>FastGene® Cryo Storage Tubes</b>		
FG-CRY-05S	0.5 ml Cryo Tubes with external lid	500 tubes (20 bags of 25 tubes)
FG-CRY-10S	1.0 ml Cryo Tubes with external lid	500 tubes (20 bags of 25 tubes)
FG-CRY-20S	2.0 ml Cryo Tubes with external lid	500 tubes (20 bags of 25 tubes)
FG-CRY-In-05S	0.5 ml Cryo Tubes with internal lid	500 tubes (20 bags of 25 tubes)
FG-CRY-In-10S	1.0 ml Cryo Tubes with internal lid	500 tubes (20 bags of 25 tubes)
FG-CRY-In-20S	2.0 ml Cryo Tubes with internal lid	500 tubes (20 bags of 25 tubes)
FG-CRY-05RC	Cryo Tube Racks in SBS format for 0.5 ml	10 racks, 40 tubes per rack
FG-CRY-10RC	Cryo Tube Racks in SBS format for 1.0 ml	10 racks, 40 tubes per rack
FG-CRY-20RC	Cryo Tube Racks in SBS format for 2.0 ml	10 racks, 40 tubes per rack
FG-CRY-2D	2-D Inserts with barcode	500 pieces



#### FG-CRY-05S

- 0.5 ml tube volume
- External lid



#### FG-CRY-10S

- 1.0 ml tube volume
- External lid



#### FG-CRY-20S

- 2.0 ml tube volume
- External lid



#### FG-CRY-In-05S

- 0.5 ml tube volume
- Internal lid



#### FG-CRY-In-10S

- 1.0 ml tube volume
- Internal lid



#### FG-CRY-In-20S

- 2.0 ml tube volume
- Internal lid



#### FG-CRY-05RC

- for 0.5 ml tubes
- SBS compatible



#### FG-CRY-10RC

- for 1.0 ml tubes
- SBS compatible



#### FG-CRY-20RC

- for 2.0 ml tubes
- SBS compatible

#### FG-CRY-2D

- 2-D barcode insert





## Comparing PCR tubes for Multiplex Probe-based Assay on a Rotor-Gene® Q

Product

FastGene® 0.2 ml PCR tubes with flat caps (FG-021F)

Manufacturer

NIPPON Genetics EUROPE

The following data is kindly provided by Dr. Birgit Klinkert, ARDEYPHARM GmbH, Herdecke, Germany

### Background

The detection of the non-pathogenic *Escherichia coli* strain Nissle 1917 (EcN) in stool samples is standardly performed in this laboratory using strain specific TaqMan® Probes. Here, the signal of the manufacturer's original plastic was compared to the FastGene® PCR Tubes from NIPPON Genetics EUROPE.

### Method

#### • PCR tubes

- 1) FastGene® 0.2 ml PCR tubes with flat caps (Cat. No.: FG-021F)
- 2) Original 0.2 ml Rotor-Gene® tubes (Cat. No.: 981005)

#### • qPCR Instrument

QIAGEN® Rotor-Gene® Q Mdx 5plex

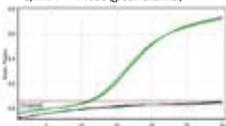


#### • Probes-labels

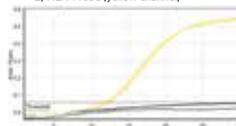
- 1) FAM™ (green channel) - Reporter primer designed to detect specific EcN plasmids
- 2) HEX (yellow channel) - Reporter primer designed to detect specific EcN plasmids
- 3) ROX™ (orange channel) - Reporter primer designed to detect specific regions in the EcN genome
- 4) Cy5 (red channel) - Reporter primer as a positive PCR control and designed to detect common enterobacteriae sequences

### Results

1) FAM™ - Probe (green channel)



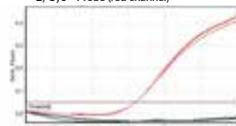
2) HEX-Probe (yellow channel)



1) ROX™ - Probe (orange channel)



2) Cy5 - Probe (red channel)



## APPLICATION NOTES

### See how our laboratory plastic performs

High quality plastic is the basis for successful scientific applications and for achieving reliable scientific results. Have a look at a few application notes and performance tests of our laboratory plastic. But the best way to convince yourself of the quality is to try it out. If you would like to test some of our plastic, we would be happy to send you a free sample.

## Would you like to test our Lab Plastic?

Just give us a call or write us an email if you would like to test our Lab Plastic and receive a free sample!

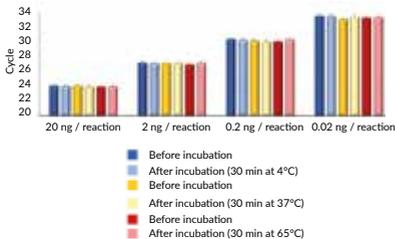
☎ +49 2421 554960 ✉ [info@nippongenetics.de](mailto:info@nippongenetics.de)

### DNA adsorption test FastGene® 96-well PCR plate (FG-170225)

FastGene® 96-well PCR plate (FG-170225) were tested for their DNA adsorption at different temperatures.

#### Method

Comparison of the DNA concentration after the incubation of different temperatures (4°C, 37°C, 65°C) compared to control DNA amount before incubation. DNA concentration was determined using qPCR quantification.



#### Results/Conclusion

The incubation tests under all conditions showed no significant decrease of DNA concentration after incubation in comparison with the control DNA amount. This means that the FastGene® plastic shows no binding of DNA.

### DNA adsorption test Screw Cap Tubes

FastGene® Screw Cap Tubes (0.5 ml) were tested for their DNA adsorption during cryopreservation.

#### Method

Measurement of DNA concentration in FastGene® Screw Cap Tubes before and after cryopreservation.

- 1: Human genomic DNA was 20-fold diluted in order to create a 250 µl solution with a concentration of 5.0 ng/µl.
- 2: Each time 50 µl of this DNA were dispensed to 0.5 ml Screw Cap Tubes. As result, 5 mother tubes were created.
- 3: For the measurement of DNA concentration in the mother tubes after dispensing, a Qubit® was used.
- 4: 10 µl from each mother tube were dispensed to three daughter tubes.
- 5: After dispensing the daughter tubes were stored for 24 h at 4°C.
- 6: The concentration of each daughter tube (5 x 3 daughter tubes = 15 tubes) was measured with Qubit®.
- 7: The mother tubes' DNA concentration was determined as 100%.

DNA conc. mother tube [ng/µl]	DNA conc. daughter tube [ng/µl]	DNA conc. changing [%]
5.08	5.18	101.84
	5.22	
	5.12	

#### Results/Conclusion

The DNA concentration in the FastGene® 0.5 ml Screw Cap Tubes shows little or no change, so that the tubes could be used without problems for DNA experiments.



NIPPON Genetics EUROPE GmbH

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