

Quality „Made in Japan“



The performance and reproducibility of your PCR result is significantly influenced by plastics. As a result of a unique manufacturing process our FastGene® PCR single tubes, 8-well-strips and 96-well plates fulfill the highest requests of quality. All FastGene® PCR plastic products are manufactured by using ultra pure polypropylene. Proteins are not able to bind to the surface. The tubes and strips have very thin walls but they are extremely stable and robust. Because of a very stringent QC procedure the „batch - to - batch“ reproducibility of all plastics is extremely high.



Fig. 1: Evaporation test: PCR samples were mixed with a coloured dye. Sample volume: 5 µl · Initial denaturation: 95°C; 10 minutes. Cycles: 30 · Denaturation: 94°C; 30 seconds · Annealing: 55°C; 30 seconds · Extension: 72°C; 60 seconds · Final extension: 72°C; 5 minutes. Total volume was determined before and after PCR.

Quality Control of FastGene® PCR plastics:

The evaporation of samples is a well known error factor which depends on the quality of the PCR plastics. This is very important especially for user that perform low volume (5 - 10 µl) PCR. Therefore the FastGene® tubes and strips are intensively tested, under very stringent conditions.

FastGene® PCR plastics stands for:

Very good contact of single tubes, strips or plates to almost all available heating blocks

- *Suitable for all thermal cyclers in your lab*

Very fast and homogenous heat transfer from the heating block to the sample

- *Reproducible PCR results*

Manufactured under stringent clean-room conditions

- *Free of RNase, DNase and human genomic DNA & Endotoxins*

Precision injection-moulded

- *High batch-to-batch reproducibility*
- *Insignificant evaporation allows small PCR volumes*

Different Formats

- *96 Well Plates*
- *8 well Strips with domed or flat cap*
- *Single reaction tubes with domed or flat cap*



Feedback from a Customer

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

Manufacturer: **NIPPON Genetics Co., Ltd**

Application: **Comparing PCR-tubes for Multiplex Probe-based Assay on a Rotor-Gene Q**

The here presented data was provided by the courtesy of Dr. Birgit Klinkert, ARDEYPHARM GmbH, Herdecke, Germany

Methods

• PCR-Tubes

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

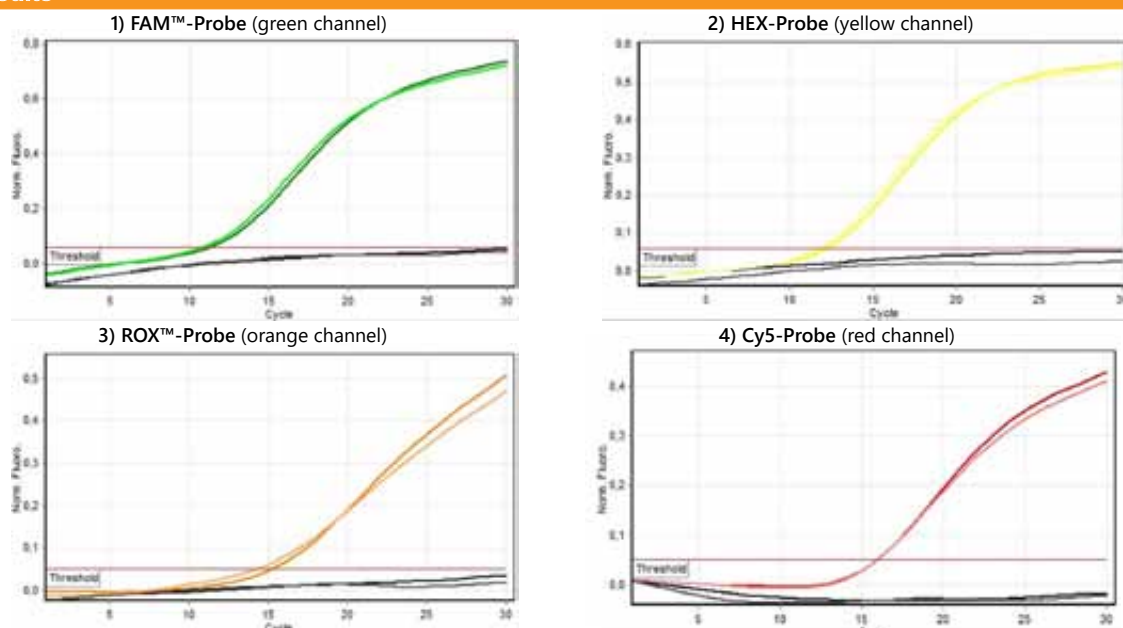


• Probes-labels

- 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 enterobacteria sequences

• qPCR Instrument QIAGEN Rotor-Gene Q Mdx 5plex

Results



Reporter Dye	Filter-Channel	C _q QIAGEN®	C _q FastGene®	NTC
1) FAM™-Probe	green	11.31	10.83	n.d n.d
2) HEX	yellow	12.16	11.74	n.d n.d
3) ROX™	orange	15.37	14.28	n.d n.d
4) Cy5	red	15.99	15.98	n.d n.d

<Customer's comments>

The lid of the FastGene® 0.2 ml PCR tubes are different from the original. Nonetheless, the lock mechanism of the Rotor-Gene Q Mdx worked perfectly with them. 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.



Single tubes and 8-well strips for perfect PCR results

- All FastGene® tubes and strips have a frosted area for labeling
- Unique letters printed on the surface
- Suitable for almost all thermal cyclers
- Reproducible PCR results
- Free of RNase, DNase and human genomic DNA
- High batch-to-batch reproducibility
- Insignificant evaporation allows small PCR volumes



PCR Single Tubes

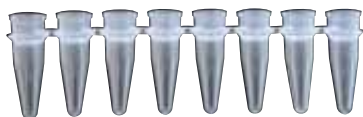


PCR single tubes 0.2 ml with flat cap (1000)
Cat.No.: FG-021F



PCR single tubes 0.2 ml with domed cap (1000)
Cat.No.: FG-021D

8-well PCR Strips, Cap Strips and Combi Packs



0,2 ml PCR 8-well strips without caps (120)
Cat.No.: FG-028



Flat cap strips (120)
Cat.No.: FG-008FC



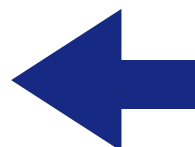
Domed cap strips (120)
Cat.No.: FG-008DC



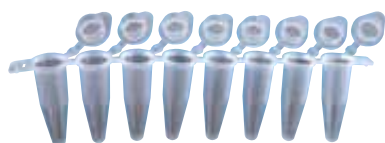
0,2 ml PCR 8-well strips and flat cap strips (120)
Cat.No.: FG-016FC



0,2 ml PCR 8-well strips and domed cap strips
Cat.No.: FG-016DC



8-well PCR Strips with individual caps



0,2 ml PCR 8-well strips with single flat caps (120)
Cat.No.: FG-088WF



0,2 ml PCR 8-well strips with single domed caps (120)
Cat.No.: FG-088WD