

Fragment Length Analysis

Sample Amounts and Concentrations for Plates

Volume	Pipetting Scheme
Each sample should have a volume of at least 10 µl	Arrayed in a 96-well plate

Sample Preparation

Labeled PCR Products

- Dilute your PCR product with Hi-Di formamide to reach the desired signal intensity (e.g. 1:2 - 1:100).
- Pipette 10 µl of the diluted, labeled PCR products into a 96-well plate.

Ready-to-load

- Dilute your size standard 1:100 with Hi-Di formamide
- Distribute 10 µl size standard/formamide mix into a 96-well plate (PCR plate, semi-skirted, ABI style).
- Dilute your PCR product to reach the desired signal intensity (e.g. 1:2 - 1:100).
- Add 1 µL of diluted PCR product to 10 µL size standard/formamide mix.
- Empty wells must be filled with distilled water.
- Barcode labels must be placed centrally on the front side of the plate.

Remark: Safe shipment of liquid solutions requires good sealing of your 96-well plate. It is recommended that you seal your 96-well plate with 8-cap stripes, 96-cap mats or heat sealing.

Matrix, Filter Sets and Dye Combinations

Dye Set Name	Matrix Type	Blue	Green	Yellow	Red	Orange
Powerplex_4C	4 dye	FAM	JOE	TAMRA	CXR*	
Powerplex_4C-RCT	4 dye	FAM	JOE	TAMRA	CXR*	
DS-30_D	4-dye	6-FAM	HEX	NED	ROX*	
DS-30_D-RCT	4-dye	6-FAM	HEX	NED	ROX*	
DS-33_G5	5 dye	6-FAM	VIC	NED	PET	LIZ*
DS-33_G5-RCT	5 dye	6-FAM	VIC	NED	PET	LIZ*
Mic-G5	5 dye	FAM	ATTO532	ATTO550	ATTO565	Dyomics630*
Mic-G5-RCT	5 dye	FAM	ATTO532	ATTO550	ATTO565	Dyomics630*

RCT: This dye set reduces signal intensity and potential crosstalk of capillaries. Higher concentration peaks can be used without going offscale.

** Dyes are reserved exclusively for the size standard and cannot be used for labeling fragments.*

Order Form Completion for Plates

Prior to shipping your samples to Microsynth, please proceed as follows to complete your order:

1. Enter our webshop on www.microsynth.com (click on "LOGIN SHOP")
2. Click on „**Genetic Analysis**“ in the green Analysis Services area
3. Click on one of the options under **Fragment Length Analysis**.
4. Fill in the order form and submit your order
5. Pack your samples into a transparent plastic bag (important: one bag per order) **with** the printed **order form**.
6. Drop your sample package into the nearest Microsynth sample drop box (if available in your vicinity) or alternatively use mail shipment.

Need More Information?

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