

Unmatched Quality and ReliabilityWith over 20 years of experience, ISO/IEC 17025:2017 accreditation, and the use of state-of-the-art equipment and software, you can trust the high-quality results and dependability of our service.

Rapid Turnaround

Enjoy fast processing times with results delivered in as little as 2 working days for standard services, ensuring your research progresses without delays.

Comprehensive Support and Convenience

Benefit from expert technical support, professional data handling, and the convenience of in-house primer design and synthesis, along with free sample pick-up at designated locations.



Applications of Fragment Length Analysis

Fragment Length Analysis (FLA) is a versatile technique with several key applications in genetic research. It is widely used for **microsatellite (STR) analysis**, which involves genotyping, cell line authentication, and studies of genetic diversity and population genetics. FLA is also essential in **DNA**

fingerprinting, particularly for microbial and genome typing, creating genetic maps, and studying molecular phylogeny. Additionally, FLA supports SNP genotyping through techniques like SNaPshot Multiplex analysis and is employed in relative fluorescence quantitation for detecting

copy number variations and aneuploidy. Finally, FLA serves as a modern replacement for traditional gel electrophoresis, offering higher accuracy, resolution, and the ability to handle complex, multiplexed samples.

Services Offered

Microsynth offers three distinct Fragment Length Analysis (FLA) services tailored to different customer needs:

FLA – Labeled PCR Products:

Customers perform the PCR reaction and submit diluted, labeled PCR products. Microsynth adds the size standard and separates the fragments via capillary electrophoresis on an ABI 3730 XL system. Raw data is provided as FSA files, with optional data analysis using GeneMarker software.

FLA - Ready-to-Load:

Similar to the Labeled PCR Products service, but customers also prepare their samples with size standard & HiDi formamide before submission. Microsynth handles the fragment separation and provides the raw data as FSA files. Optional data analysis and reporting are available.

FLA – Customized:

This service offers a fully customized solution, including everything from DNA isolation and PCR optimization to full fragment analysis and reporting. Microsynth works closely with customers to tailor the service to their specific needs, making it ideal for complex or large-scale projects. Customers are encouraged to discuss their project details with a Microsynth specialist to ensure the best possible outcomes.

Data Analysis and Reporting

This service is ideal for those who need quick and reliable fragment analysis, with turnaround times ranging from 2-6 business days depending on the level of data analysis required. FLA analysis is conducted using GeneMarker software, which includes

allele calling (determining allele names and base pair sizes) along with corresponding JPEGs of the allele calls. Additional data such as peak height, area, signal ratio, and intensity are also provided. The electropherograms undergo automated analysis utilizing

state-of-the-art procedures for fragment length reporting. Additionally, each allele call is validated through visual inspection. The results of the fragment length analysis will be delivered to the customer as .xlsx files via email

Products

6200	FLA (Ready-to-load, 1-24 Samples)	6223	FLA Reporting (per Marker, per Sample)
6201	FLA (Ready-to-load, 25-48 Samples)	6224	FLA Reporting (Setup Fee)
6202	FLA (Ready-to-load, 49-96 Samples)		
6210	FLA (PCR Labeled Products,1-24 Samples)		
6211	FLA (PCR Labeled Products,25-48 Samples)		
6212	FLA (PCR Labeled Products, 49-96 Samples)		

Need More Information?

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E-mail us at genotyping@microsynth.ch

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