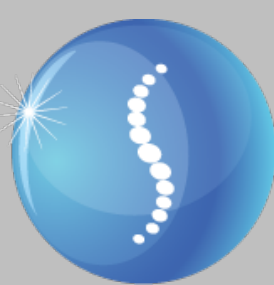


# SageELF: One input, Many tight size fractions

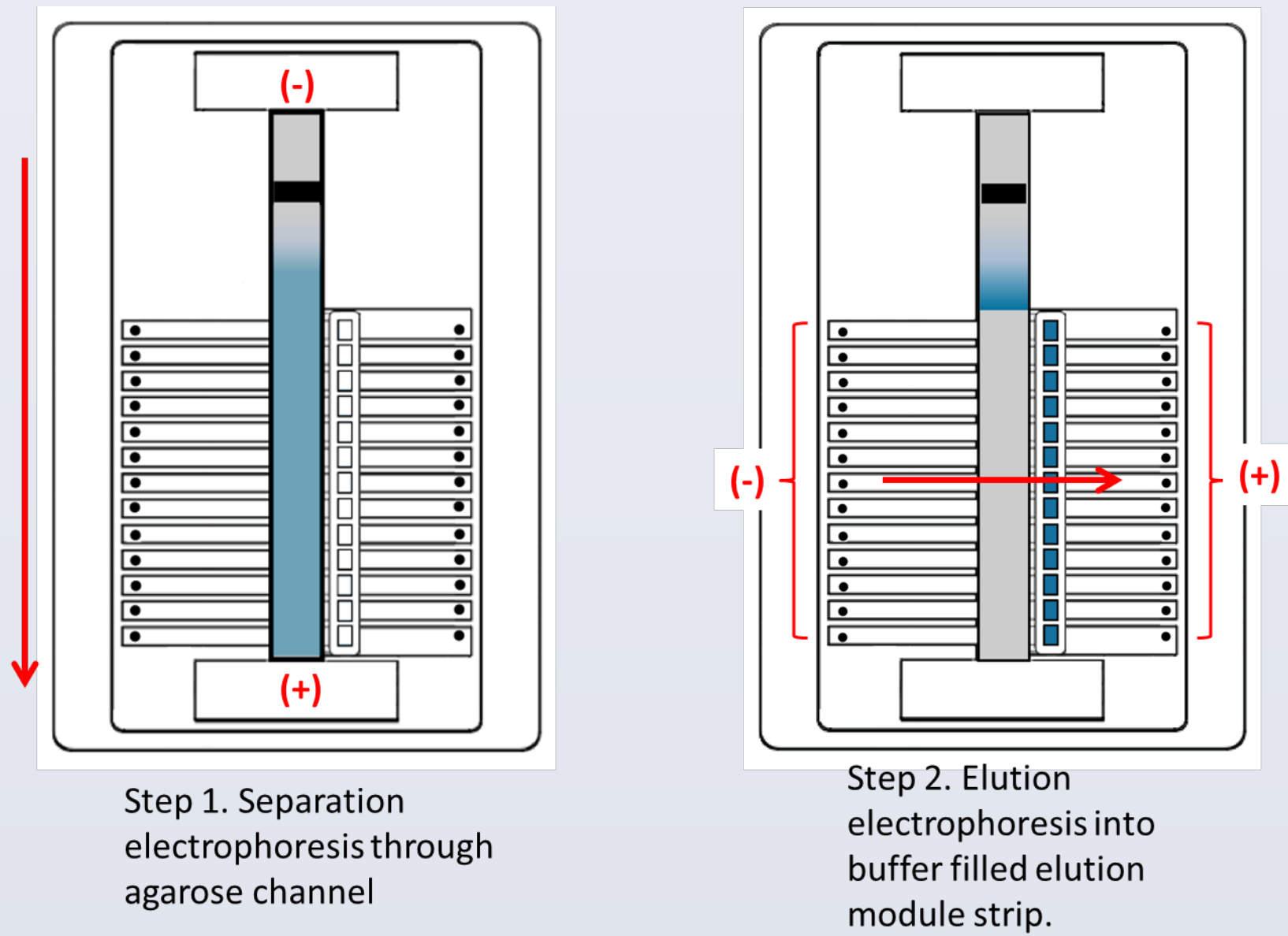


sage science

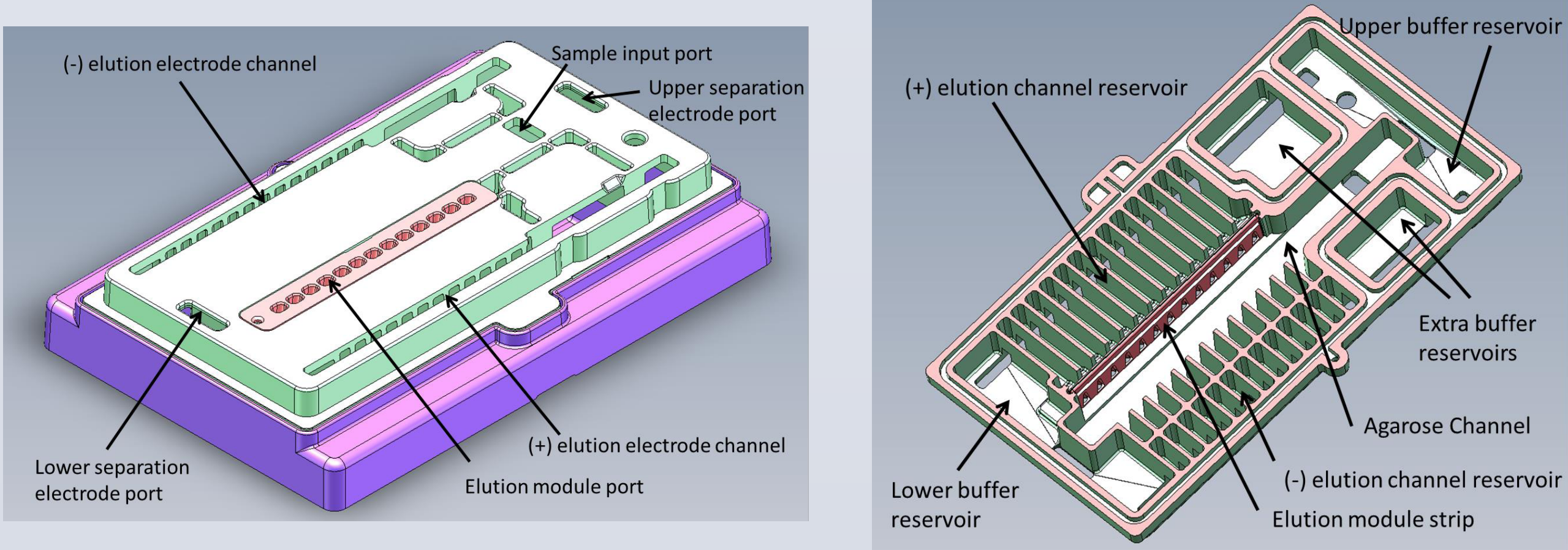
## Introduction

The SageELF system uses a two-dimensional process to separate DNA through an agarose column in a first direction, and then move the separated DNA fragments sideways into a linear array of buffer-filled elution modules that are positioned alongside the separation column. Each disposable cassette will process a single sample, and the instrument will process two cassettes per run. The instrument can operate in direct current mode for samples up to mid-single kilobases in size, or in pulsed field mode for samples up to 100's of kilobases in size. Fractionation range is controlled by selection of voltage protocol, gel concentration, and run timing. Internal standards can be used to improve run-to-run reproducibility, and the instrument can read fluorescein-labeled markers.

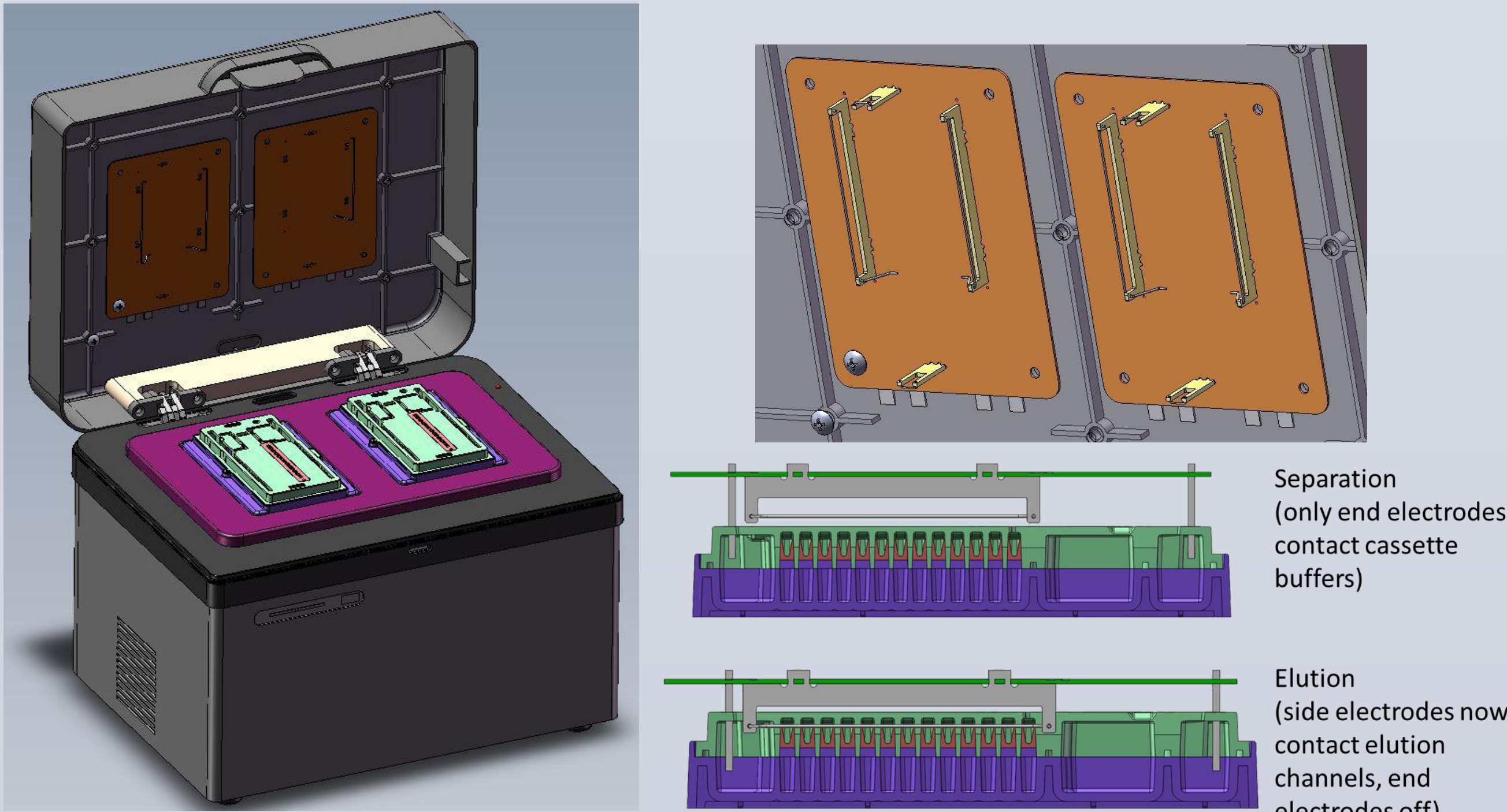
## ELF Concept



## ELF Cassette



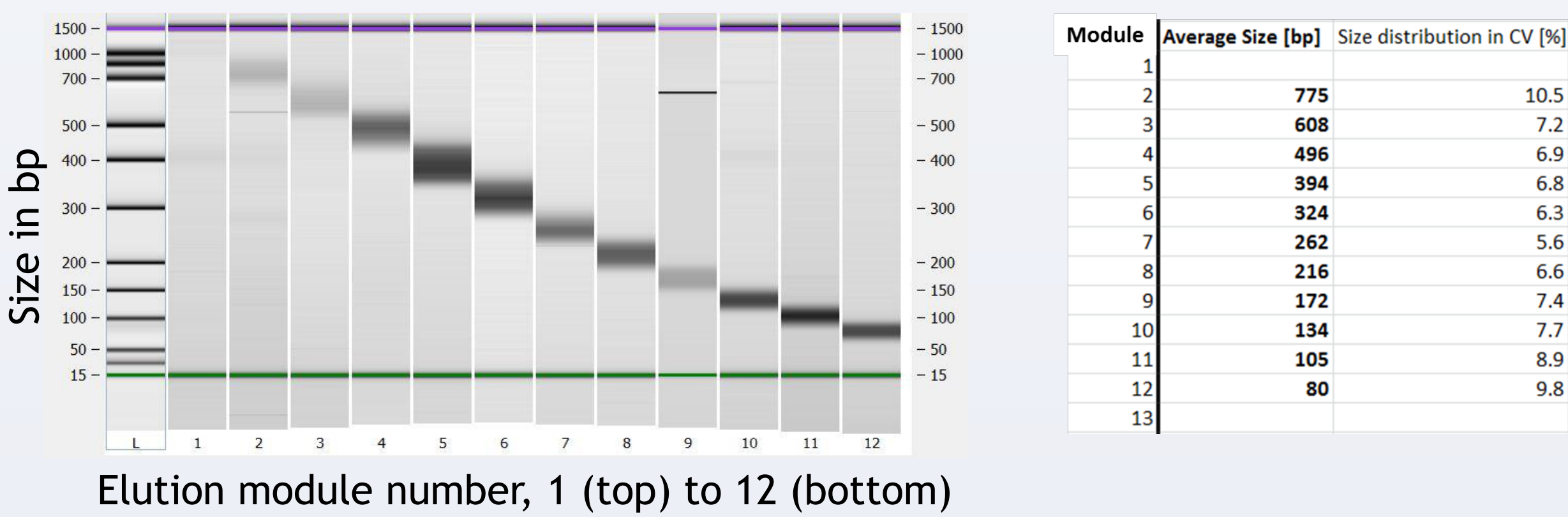
## ELF Instrument



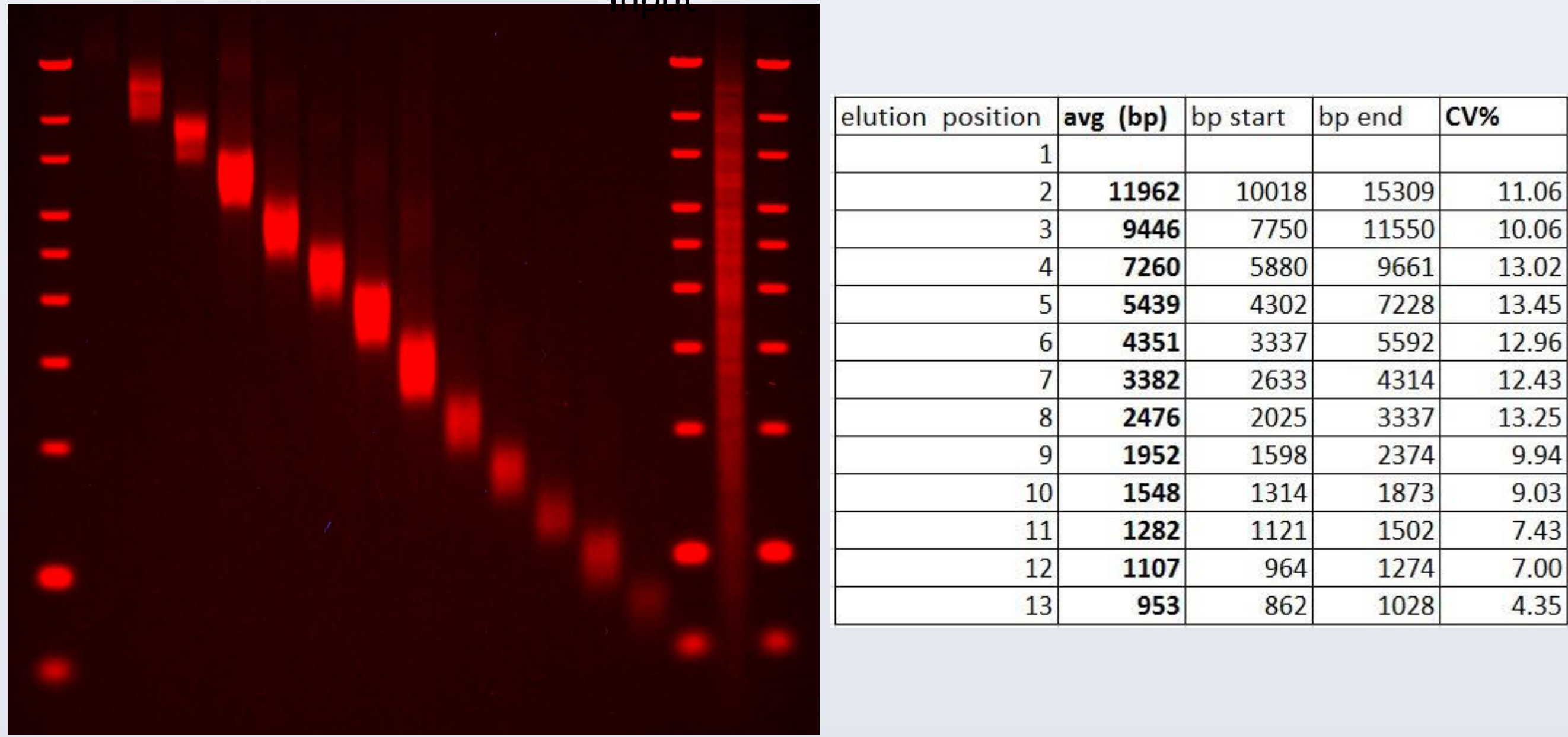
The ELF instrument will run 2 cassettes (1 sample/cassette). The electrodes are contained in the instrument lid, and are exposed when the lid is closed. The instrument has an on-board computer, and is supplied with a monitor and keyboard. Dimensions: 9.9"(high), 13.3"(wide), 11.5"(deep).

## Examples of ELF performance

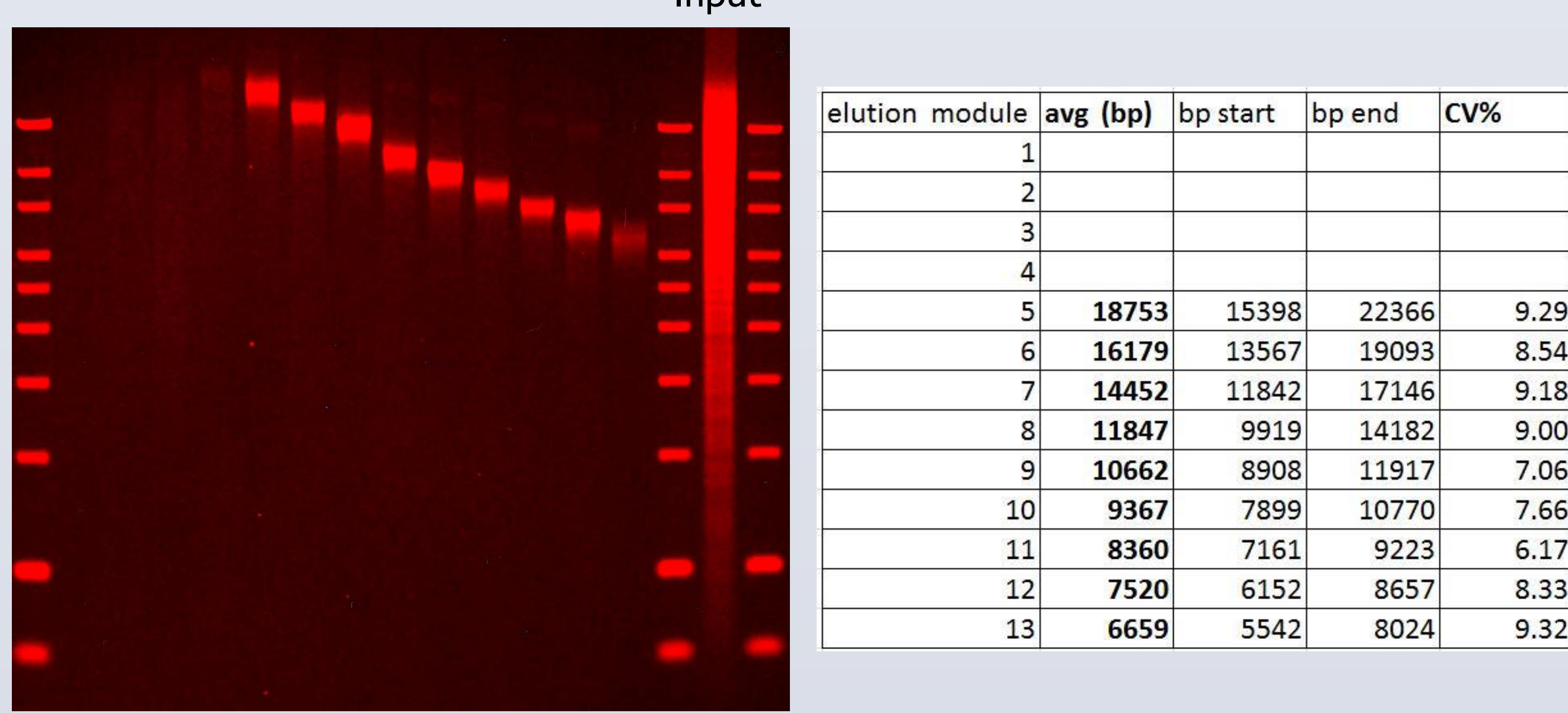
2% agarose gel, continuous field, sample of Ecoli genomic DNA digested with 4base cutters



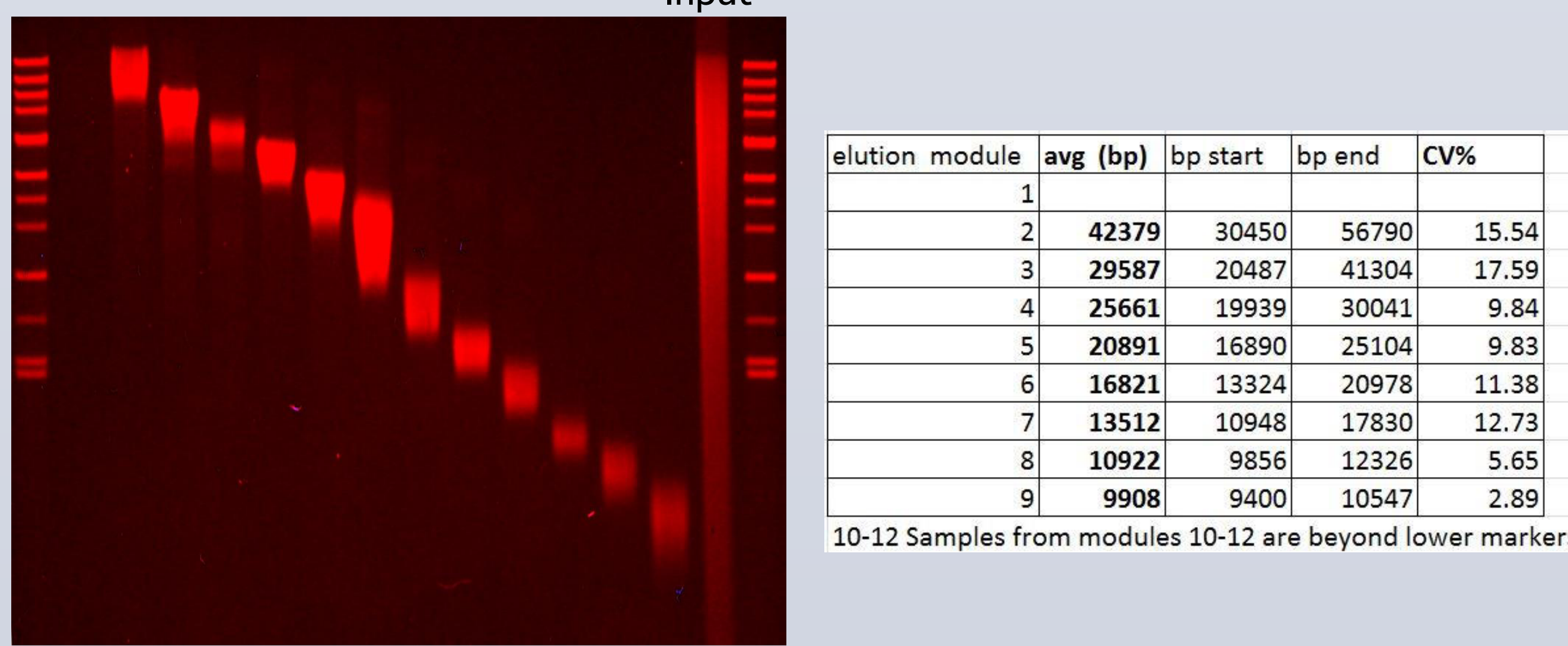
0.75% agarose gel, pulsed field prog. 1, restricted Ecoli gDNA, 2.5 hours



0.75% agarose gel, pulsed field prog. 1, restricted Ecoli gDNA, 5 hours



0.75% agarose gel, pulsed field prog. 2, restricted Ecoli genome DNA, 6 hours



## Contact

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