



1 *BeadTRAP unit for low concentration biomolecule detection.*

2 *Oscillating fluorescence signal of loaded magnetic beads.*

BEADTRAP

Highly sensitive

The BeadTRAP system combines purification of magnetic beads and parallel analysis of bound biomolecules. The molecule of interest is bound to functionalized magnetic beads and collected by permanent magnets. The special geometry allows to excite the beads and they start to oscillate in a certain frequency. The resulting oscillating fluorescence signal can be used to detect the biomolecule with high signal to background ratio.

No tedious laboratory work

Before a biomolecule can be detected, tedious laboratory work is often performed to isolate the molecule from an unpurified liquid sample. Yields decrease with every purification step resulting in a loss of high value material. After isolation, detection has to be carried out. Most frequently fluorescent dyes are used for that.

BeadTRAP allows biomolecule detection without washing steps and therefore saves time and cost in your daily business.

High flexibility

BeadTRAP is based on magnetizable beads which can be equipped with binding partners for your detection task. Whether you want to analyze DNA/RNA or other biomolecules, as long as there is a binding partner available, BeadTRAP will find your biomolecule.

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