

# MicroRNA Enzyme ImmunoAssay – miREIA

A novel, immunoassay-based method of mirna quantification

- Superior analytical specificity
- Detection limit as low as 0,1 amol/μl
- Strong correlation with qRT-PCR method ( $r > 0,9$ )

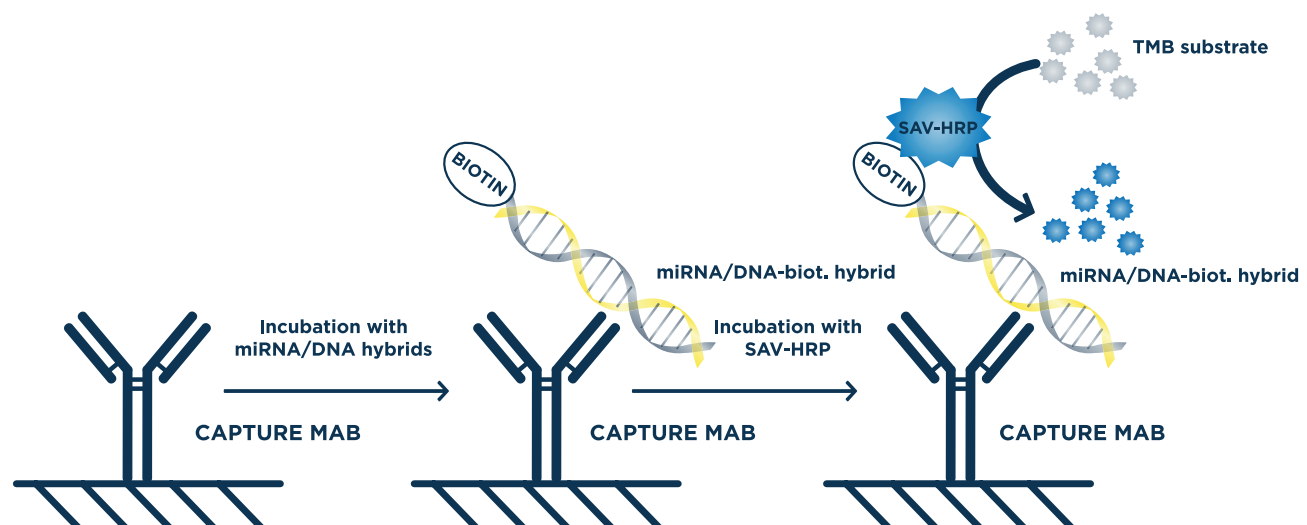
## Background

MicroRNAs (miRNAs) are very short (19-23nt) non-coding RNA molecules which regulate gene expression through silencing or degradation of the target mRNAs. Actual stage and progression of diseases influence the levels of these circulating molecules. Therefore, numerous studies have suggested miRNAs as promising diagnostic and prognostic biomarkers. However, there has been a lack of a proper method for miRNA quantification from diverse sample types.

BioVendor miREIA assay offers a solution by establishing the total quantity of both miRNA as well as piRNA (PIWI-interacting RNA). It includes the hybridization of miRNA to a complementary biotinylated DNA oligonucleotide probe. The DNA/RNA hybrids are then processed with an ELISA-like protocol in a microplate coated with a monoclonal antibody specific to perfectly matched DNA/miRNA hybrids.

## Advantages

- Fast and user-friendly method (results in less than 2 hours)
- No reverse transcription, no amplification steps
- Only common immunoassay instruments and analyzers needed
- Low cost per sample
- Sensitive method with absolute miRNA quantification



# miREIA KITS

## Assay design and validation for microRNA profiling

BioVendor miREIA kits are particularly designed for microRNA targets specified on request by the client.

- ELISA platform assay
- Specific RNA/DNA hybrid antibody
- Assays validated on synthetic miRNA samples as well as on biological samples

The current portfolio combines validated kits and on-demand developed assays for specific miRNA quantification. One kit covers measurements for up to 80 samples. Quality control (QC) is included.

For more information see: [www.biovendor.com/mirna](http://www.biovendor.com/mirna)

## Service

### Our expertise for your science – miRNA measurement available to all

The BioVendor team of scientific specialists provides a measurement service of microRNA quantification in a fully equipped laboratory.

You only provide us with properly collected samples and a list of miRNAs to measure.

- Excellent solution for scientists or practitioners without access to the laboratory or equipment
- The best opportunity to generate pilot data for grant proposals
- Project planning support and troubleshooting for further steps
- Supervision by experts in miRNA analysis

For more information, contact our product manager: [gresakova@biovendor.com](mailto:gresakova@biovendor.com).



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