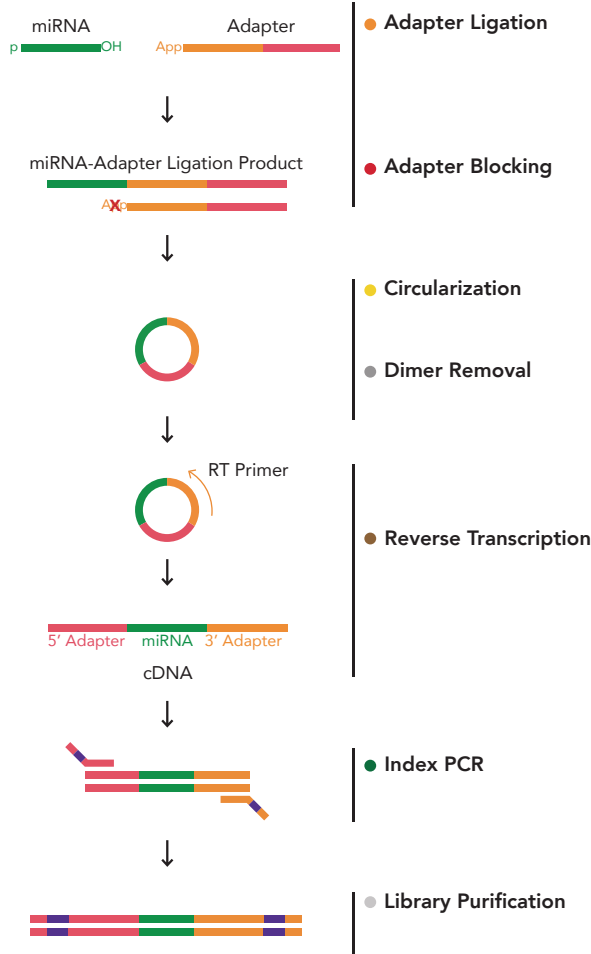


# Zymo-Seq miRNA Library Kit

*Innovative gel-free workflow to simplify small RNA discovery.*

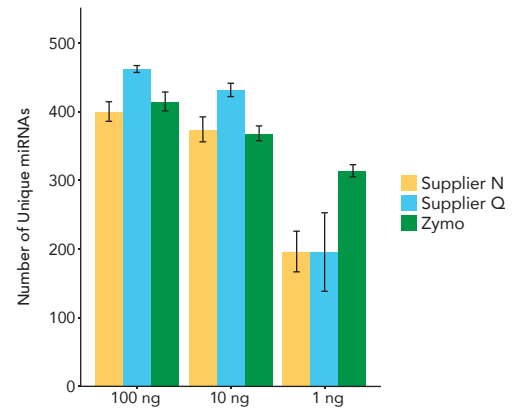
- **Accurate miRNA profiling:** A unique single adapter and circularization strategy reduces ligation bias and increases miRNA detection.
- **Direct detection:** Generates small RNA libraries without the need for small RNA enrichment.
- **Gel-free:** Removes adapter dimers from any input without lengthy gel excision.

## Gel-Free Workflow for ANY Input

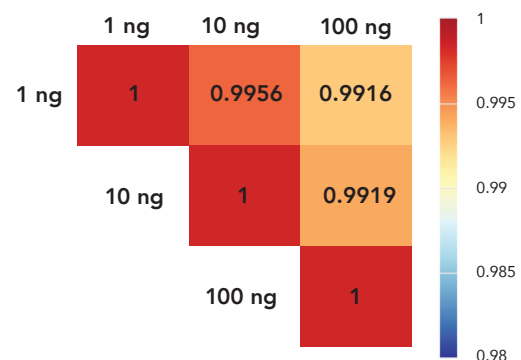


Overview of the Zymo-Seq miRNA Library Kit workflow.

## Quality Performance at Low Input



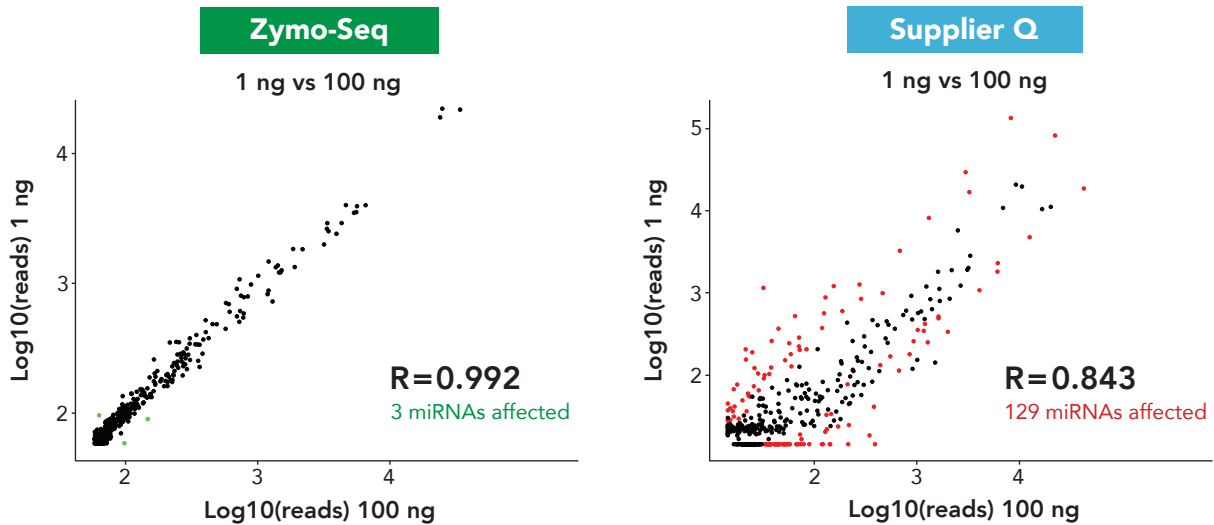
**Zymo-Seq miRNA Library Kit detects more miRNAs at low input.** Libraries were prepared in triplicate using Human Brain Total RNA (ThermoSci). Libraries were sequenced (75 bp single-end), downsampled to 1 million reads, and aligned to miRbase v 22. Number of unique miRNAs with more than 2 aligned reads are shown. Error bars represent the standard deviation.



**High replicate correlation at any input.** Pearson's R calculated over 3 replicates for each input of Human Brain Total RNA (ThermoSci).

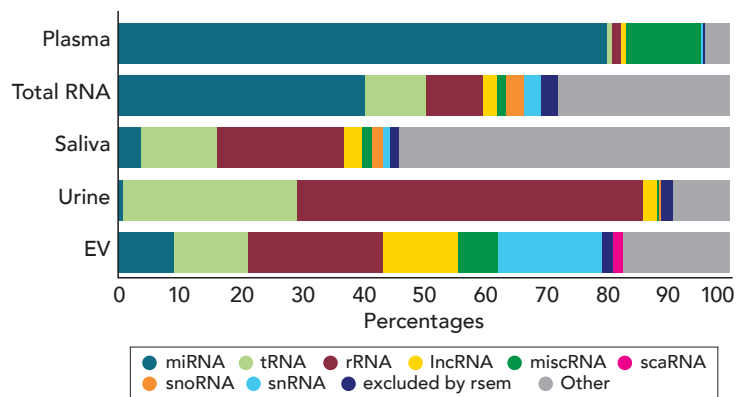


## Reproducible at Low Input



**Zymo-Seq miRNA Library Kit preserves native expression profiles for accurate differential expression analysis.** Differential expression analysis between 100 ng and 1 ng input show minimal miRNAs affected compared to competing supplier. Normalized reads from triplicate experiments of Human Brain Total RNA (ThermoSci) are shown alongside Pearson's R. Differentially expressed ("affected") microRNAs (Padj < 0.05) were determined by isomiRs (Deseq2) package in R.

## Small RNA Profiling for Biofluids and Total RNA



### Also Validated With

- ✓ Total RNA
- ✓ Cell-free RNA
- ✓ Cells
- ✓ Tissue
- ✓ Plants
- ✓ Drosophila
- ✓ And Many More!

RNA Type Plot shows different small RNA classes present in each sample type. Total RNA refers to Human Brain Total RNA (Thermo Sci). RNA from all other biofluids was purified using Zymo purification kits.

Product	Cat. No.	Size
Zymo-Seq miRNA Library Kit	R3006 R3007	12 preps 96 preps

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