



# miRCURY LNA™ microRNA Array

## Spike-in miRNA Kit

Product # 208040, Manual version 1.1

### Content

2 vials each containing 10 synthetic unlabeled miRNAs, dried-down. Each vial is sufficient for minimum 24 rxns. 1 vial containing 500 µL nuclease-free water.

### Instructions for use

Prior to use, the spike-in miRNAs must be dissolved in nuclease-free water (see the instruction manual of the miRCURY LNA™ microRNA Array for details). Leave the suspension on ice for 30 minutes to dissolve. Vortex and then spin to collect tube contents. Exiqon recommends to aliquot the dissolved spike-in miRNAs to avoid repeated freeze/thawing. For long-term storage, keep the vial at  $-80^{\circ}\text{C}$ .

### Product description

When the spike-in miRNA kit is added to the labeling reactions before a dual-color array hybridization, the signals from the spike-in capture probes can be used:

- as a control of the labeling reaction and hybridization
- as a help in deciding scanner settings between channels
- to assess technical variability between different parts of the array

When the spike-in miRNA kit is pre-labeled and added to the individual samples prior to hybridization, the signals from the spike-in capture probes can be used:

- as a control of the hybridization
- to assess technical variability between different parts of the array

For detailed procedure, please see the instruction manual of the miRCURY LNA™ microRNA Array.

Table 1 shows the annotations of the spike-in miRNA capture probes available in the GAL-file for miRCURY LNA™ microRNA Arrays.

**Table 1**

Probe ID	Positive controls	Validated spike-in miRNA control in these organisms
14261	spike_control_v1_a	hsa, mmu, rno, dro, cel
14263	spike_control_v1_b	hsa, mmu, cel
14264	spike_control_v1_c	hsa, mmu, rno, dro, cel
10904	spike_control_v1_d	hsa, mmu, dro, cel
10906	spike_control_v1_e	hsa, mmu, rno
14262	spike_control_v1_f	hsa, mmu, rno
10905	spike_control_v1_g	hsa, mmu, rno, dro, cel
10907	spike_control_v1_h	hsa, mmu, rno, dro, cel
14257	spike_control_v1_i	hsa, mmu, cel
10899	spike_control_v1_j	hsa, mmu, rno, dro, cel

The spike-in miRNA control capture probes were compared against the genomic sequence of hsa, mmu, rno, dre, dme, cel and ath with the BLAST tools at [www.ensembl.org](http://www.ensembl.org) and [www.arabidopsis.org](http://www.arabidopsis.org). Other organisms may also be valid. Only spike-in miRNA control capture probes with less than 100% match to genomic target are in this table.

## Storage

Store the dissolved spike-in miRNAs at  $-20^{\circ}\text{C}$  until use and avoid repeated cycles of freeze/thawing. Exiqon recommends to aliquot the dissolved spike-in miRNAs into smaller volumes to avoid repeated freeze/thawing. For long-term storage, keep the vial at  $-80^{\circ}\text{C}$ .

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#### Literature citations

Please refer to miRCURY™ LNA microRNA Array spike-in miRNA kit when describing a procedure for publication using this product.

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