



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°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 and 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°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°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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