**KingFisher – mirVana total RNA kit (A27828) extraction log**

|  |  |  |  |
| --- | --- | --- | --- |
| Date |  | Sample  info | Brain region: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Thaw Start time |  |
| Extraction Start time |  |
| Elution volume | ul NFW |
| End time |  |
| RNA storage location |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| A |  |  | 105-6 | 107-8 |  |  | 109-11 | 113-2 | 115-1 |  |  |  |
| B |  |  | 105-7 | 107-11 |  |  | 110-2 | 113-4 | 115-3 |  |  |  |
| C |  |  | 105-11 | 108-5 |  |  | 110-6 | 113-9 | 115-9 |  |  |  |
| D |  |  | 106-2 | 108-8 |  |  | 110-9 | 113-11 | 115-11 |  |  |  |
| E |  |  | 106-3 | 108-11 |  |  | 112-1 | 114-2 | 116-2 |  |  |  |
| F |  |  | 106-5 | 109-1 |  |  | 112-6 | 114-5 | 116-3 |  |  |  |
| G |  |  | 107-1 | 109-5 |  |  | 112-8 | 114-8 | 116-10 |  |  |  |
| H |  |  | 107-5 | 109-7 |  |  | 112-12 | 114-11 | 116-11 |  |  |  |

**[mirVana total RNA extraction kit] For 40 samples + 2 extra = 42**

**TURBO DNase Solution** on ice

|  |  |  |
| --- | --- | --- |
| Component | Volume per well | Total volume for 42 samples |
| MagMax TURBO DNase Buffer | 48 ul | 2016 ul (672\*3) |
| TURBO DNase | 2 ul | 84 ul |
| Total TURBO DNase Solution | 50 ul | 2100 ul |

**Binding Beads Mix** on ice

|  |  |  |
| --- | --- | --- |
| Component | Volume per well | Total volume for 42 samples |
| RNA Binding Beads | 10 ul | 420 ul |
| Lysis/Binding Enhancer | 10 ul | 420 ul |
| Total Binding Beads Mix | 20 ul | 840 ul |

**[Quant-it RNA assay kit] 40 samples + 8 standards, run in duplicates, 4 extra 🡪 100 wells**

**Bring all reagents to room temperature. Component A stored in the drawer (always RT)**

**Working solution = 110ul RNA reagent (Component A) + 22ml Buffer (Component B)**Stable for 3 hours in room temperature, protect from light

**Standard well**: 200ul working solution + 10ul of Standard (straight from the vials)

**RNA sample well**: 200ul working solution + 1ul of RNA sample

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| A | Standard  0 | Standard  0 | 105-6 | 105-6 | 107-8 | 107-8 | 109-11 | 109-11 | 113-2 | 113-2 | 115-1 | 115-1 |
| B | Standard  0.5 | Standard  0.5 | 105-7 | 105-7 | 107-11 | 107-11 | 110-2 | 110-2 | 113-4 | 113-4 | 115-3 | 115-3 |
| C | Standard  1 | Standard  1 | 105-11 | 105-11 | 108-5 | 108-5 | 110-6 | 110-6 | 113-9 | 113-9 | 115-9 | 115-9 |
| D | Standard  2 | Standard  2 | 106-2 | 106-2 | 108-8 | 108-8 | 110-9 | 110-9 | 113-11 | 113-11 | 115-11 | 115-11 |
| E | Standard  4 | Standard  4 | 106-3 | 106-3 | 108-11 | 108-11 | 112-1 | 112-1 | 114-2 | 114-2 | 116-2 | 116-2 |
| F | Standard  6 | Standard  6 | 106-5 | 106-5 | 109-1 | 109-1 | 112-6 | 112-6 | 114-5 | 114-5 | 116-3 | 116-3 |
| G | Standard  8 | Standard  8 | 107-1 | 107-1 | 109-5 | 109-5 | 112-8 | 112-8 | 114-8 | 114-8 | 116-10 | 116-10 |
| H | Blank | Blank | 107-5 | 107-5 | 109-7 | 109-7 | 112-12 | 112-12 | 114-11 | 114-11 | 116-11 | 116-11 |