**S1 Table. Description of Standardization for miRNAs Extraction Protocols.**

<table>
<tr><th colspan="11">Number of Protocol</th></tr>
<tr><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th></tr>
<tr><td colspan="11">DBS + 300 μl TE buffer and vortexing at 2,000 rpm at 4°C by 30 min</td></tr>
<tr><td colspan="5">Add 1 ml TRI Reagent + 200 μl chloroform</td><td colspan="2">Add 1.2 ml phenol:chloroform</td><td rowspan="2"></td><td>Add 300 μl lysis/binding buffer and vortex vigorously<br>Add 30 μl of miRNA homogenate additive</td><td>Add 1 ml TRI Reagent + 200 μl chloro-form</td><td>Add 1.2 ml phenol: chloroform</td><td>Add 1 ml TRI Reagent + 200 μl chloroform</td></tr>
<tr><td colspan="5" rowspan="3">Vortexing at 2,000 rpm at RT by 5 min<br><br>Stand at RT by 2 min<br><br>Centrifuge at 14,000 g at 4°C by 15 min</td><td colspan="2" rowspan="3">Vortexing (10 sec)/inverting (10X)<br>Stand on ice by 10 min</td><td colspan="3" rowspan="3">Vortexing at 2,000 rpm at RT by 5 min<br><br>Stand at RT by 2 min<br><br>Centrifuge at 14,000 g at 4°C by 15 min</td></tr>
<tr><td colspan="2">Add 300 μl phenol:chloroform<br>Vortexing 1 min</td></tr>
<tr><td colspan="2">Centrifuge at 13,400 rpm at RT by 5 min</td></tr>
<tr><td colspan="11">Recover of aqueous phase, transfer to a new 1.5 ml tube</td></tr>
<tr><td colspan="6">Mix 1:1 with 100% ethanol at RT</td><td>Mix 1.25:1 with 100% ethanol at RT</td><td colspan="3">Mix with 1/3 100% ethanol at RT</td><td>Mix 1:1 with 100% ethanol at RT</td></tr>
<tr><td colspan="11">Homogenize by vortexing (5 sec)/inverting (10X)<br>Place filter cartridge into collection tubes (mirVana kit)<br>Add up to 700 μl of mixture to each filter cartridge (repeat and pool if necessary)<br>Centrifuge at 10,000 rpm at RT by 15 sec</td></tr>
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<tr><td colspan="4"></td><td>Collect filtrate<br>Mix with 2/3 100% ethanol at RT<br>Mix vigorously<br>Place new filter cartridge into collection tube (mirVana kit)<br>Add up to 700 µl of mixture to each cartridge (repeat and pool if necessary)<br>Centrifuge at 10,000 rpm at RT by 15 sec</td></tr>
<tr><td colspan="5">Discard filtered liquid</td></tr>
<tr><td>Add 700 µl of 100% isopropa-nol: 100% ethanol</td><td>Add 700 µl of wash solution 1 (mirVa-na Kit)</td><td colspan="2">Add 700 µl of 100% isopropanol:100% ethanol</td><td>Add 700 µl of wash solution 1 (mirVana Kit)</td></tr>
<tr><td colspan="5">Centrifuge at 10,000 rpm at RT by 15 sec, discard filtered liquid</td></tr>
<tr><td>Add 500 µl of 100% ethanol</td><td>Add 500 µl of wash solution 2/3 (mirVana Kit)</td><td>Add 500 µl of 100% ethanol</td><td colspan="2">Add 500 µl of wash solution 2/3 (mirVana Kit)</td></tr>
<tr><td colspan="5">Centrifuge at 10,000 rpm at RT by 15 sec, discard filtered liquid</td></tr>
<tr><td>Add 500 µl of 100% ethanol</td><td colspan="4">Add 500 µl of wash solution 2/3 (mirVana Kit)</td></tr>
<tr><td colspan="5">Centrifuge at 10,000 rpm at RT by 15 sec, discard filtered liquid<br>Centrifuge recovering tube and filter cartridge at 10,000 rpm at RT by 1 min<br>Transfer the cartridge to a new 1.5 ml tube<br>Elute with 100 µl of 0.1% (v/v) DEPC treated $H_2O$, heated at 95°C<br>Centrifuge at 13,400 rpm at RT by 30 sec<br>Discard filter cartridge<br>Store at < -70°C</td></tr>
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In Protocol number 8, mirVana kit's (Life Technologies) reagents were used for purification and enrichment for small RNAs.