# CatchGene® Vrial DNA/RNA Kit

| Cat. No. | Rxn |
|---|---|
| MT10004 | 4 |
| MT10050 | 50 |
| MT10250 | 250 |

## Kit Content

| | 4rxn | 50rxn | 250rxn | |
|---|---|---|---|---|
| **Spin Column** | 4 | 50 | 250 | pcs |
| **Collection Tubes (2 ml)** | 12 | 150 | 750 | pcs |
| **Buffer AE** | 0.5 | 1.5 | 10 | ml |
| **Carrier RNA** | 12x2 | 140x2 | 1350 | µg |
| **Proteinase K** | 1 | 11 | 11x5 | mg |
| **Buffer TVL** | 0.96 | 12 | 60 | ml |
| **Buffer RW1 (concentrated)** | 3.36 | 42 | 105x2 | ml |
| **Buffer RW2 (concentrated)** | 0.68 | 8.4 | 42 | ml |
| **RNase-Free $H_2O$** | 0.96 | 12 | 60 | ml |

## Kit Storage

Upon arrival,

1. Please store **Proteinase K** and **Carrier RNA** at **-20** ℃ for long term storage.

Buffer, solvent and consumables, please store at 15-25 ℃.

## Kit Preparation

1. **Prepare 10 mg/ml Proteinase K**
   For 1 mg Proteinase K, please add 100 µl Buffer AE into tube and vortex thoroughly for dissolving.
   For 11 mg Proteinase K, please add 1100 µl Buffer AE into tube and vortex thoroughly for dissolving.
   After dissolving into the solvent, please store at 4°C for 6 month or -20°C for 1 year.
2. **Prepare 1 µg/µl Carrier RNA**
   For 12 µg Carrier RNA, please add 12 µl Buffer AE into the bottom of tube and mix thoroughly for dissolving.
   For 140 µg Carrier RNA, please add 140 µl Buffer AE into the bottom of tube and mix thoroughly for dissolving.
   For 1350 µg Carrier RNA, please add 1350 µl Buffer AE into the bottom of tube and mix thoroughly for dissolving.
   After dissolving, please aliquot into smaller volume and store at -20°C. Do not freeze-thaw more than three times.
3. **Prepare Buffer RW1**
   Add equal volume of 100% EtOH into Buffer RW1 (concentrated) to get Buffer RW1.
   After adding 100% EtOH, please check the sticker on the bottle and close the cap tightly.
4. **Prepare Buffer RW2**
   Add 4 volume of 100% EtOH into Buffer RW2 (concentrated) to get Buffer RW2.
   After adding 100% EtOH, please check the sticker on the bottle and close the cap tightly.

## General Protocol

1. Add 20 µl Proteinase K (10 mg/ml) into a 1.5 ml micro-centrifuge tube (not provided).
2. Add 5 µl Carrier RNA (1 µg/µl) into the 1.5 ml micro-centrifuge tube.
3. Transfer 200 µl serum or plasma sample into the tube. Close the cap, vortex for 5 sec then brief spin down.
4. Add 200 µl Buffer TVL into the tube. Close the cap, vortex vigorously for 15 sec then brief spin down.
5. Incubate at 56 °C for 15 min, then cool down to room temperature.
6. Add 250 µl of 100% EtOH, close the cap and mix thoroughly by vortex for 15 sec, brief spin down.
7. Transfer all mixture to a Spin Column (with 2ml Tube), centrifuge at 11,000 x g for 1 min. Discard the flow-through and change a new Collection Tube.
8. Add 700 µl Buffer RW1 into spin column, centrifuge at 11,000 x g for 1 min, discard the flow-through.
9. Add 700 µl Buffer RW1 into spin column, centrifuge at 11,000 x g for 1 min, discard the flow-through.
10. Add 700 µl Buffer RW2 into spin column, centrifuge at 11,000 x g for 1 min, discard the flow -through.
11. Change a new Collection Tube, centrifuge at 11,000 x g for 3 min.
12. Place the spin column into a 1.5 ml micro-centrifuge tube, add 30-100 µl RNase-Free $H_2O$ and incubate at 25°C (room temperature) for 3 min.
13. Centrifuge at 11,000 x g for 1 min for elution.