

Kit Content

| | 2rxn | 50rxn | |
|-----------------------------|------|-------|-----|
| LV Module (with 50ml tube) | 2 | 50 | set |
| Spin Column | 2 | 50 | pcs |
| Collection Tubes (2 ml) | 4 | 100 | pcs |
| Buffer RC | 30 | 185x4 | ml |
| Buffer RL | 3 | 75 | ml |
| Buffer RB | 3 | 40x2 | ml |
| Buffer RW1 (concentrated) | 4 | 100 | ml |
| Buffer RW2 (concentrated) | 0.3 | 7.5 | ml |
| RNase-Free H ₂ O | 0.5 | 8 | ml |

Kit Storage

Upon arrival,
1. Please store **Buffer RC** at 4 °C for long term storage.

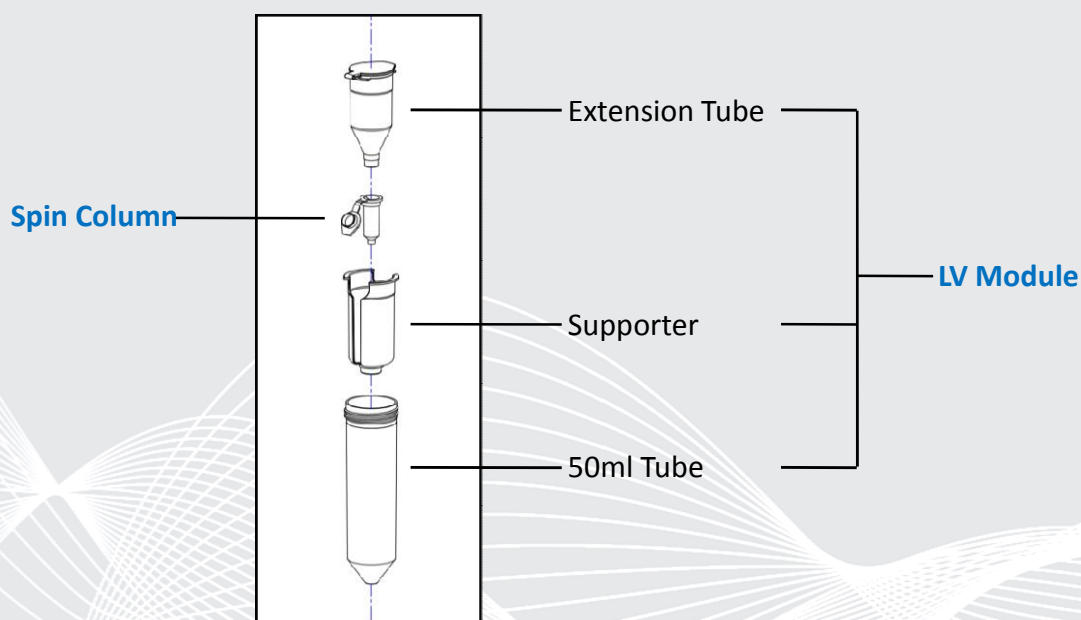
Other buffer, solvent and consumables, please store at 15-25 °C.

Kit Preparation

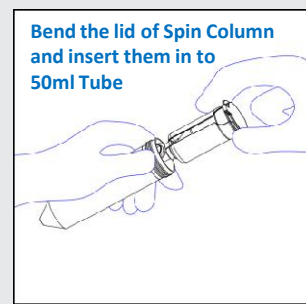
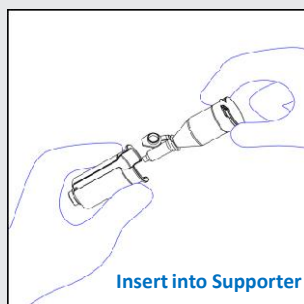
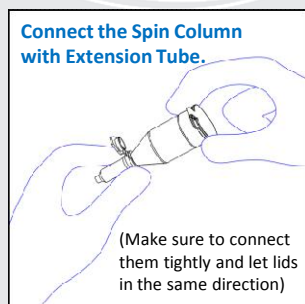
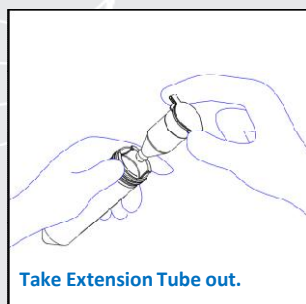
- 1. Prepare Buffer RB**
Add 2.4 volume of 100% EtOH into Buffer RB and vortex thoroughly.
After adding 100% EtOH, please tick the sticker on the bottle and close the cap tightly.
- 2. Prepare Buffer RW1**
Add equal volume of 100% EtOH into Buffer RW1 (concentrated) to get Buffer RW1.
After adding 100% EtOH, please check the sticker on the bottle and close the cap tightly.
- 3. 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

- Pipette 2 ml fresh whole blood sample into 50 ml tube and add 10 ml Buffer RC, mix well by inversion.
- Incubate on ice for 15 min. (Mix 2 times by inversion during incubation.)
- Centrifuge at 400 x g for 10 min at 4 °C to form a cell pellet and discard the supernatant completely.
- Add 4 ml of RC Buffer to res-suspend the cell pellet and mix well by inversion.
- Centrifuge at 400 x g for 10 min at 4 °C to form a cell pellet and discard the supernatant completely.
- Add 1400 µl Buffer RL (add 1% β-mercaptoethanol freshly), vortex vigorously for 30 sec, brief spin down then incubate at 25 °C (room temperature) for 5 min.
- Add 1400 µl Buffer RB, vortex 10 sec, brief spin down
- Connect LV Module with the Spin Column to become LV Column Module. Please refer to the illustration in next page.
- Transfer all lysate into LV Column Module, centrifuge at 2,700 x g for 2 min, discard the flow-through.
- Add 3ml RW1 Buffer into LV Column Module, centrifuge at 2,700 x g for 2 min, discard the flow-through.
- Take LV Column Module out of 50 ml tube. Disconnect the Spin Column from the LV Module, then place the Spin Column on a 2 ml Collection Tube. Please refer to the illustration in next page.
- (Optional) On column digest of DNA with DNase I (not provided).
- Add 700 µl Buffer RW1 into spin column, centrifuge at 11,000 x g for 1 min, discard the flow-through.
- Add 700 µl Buffer RW2 into spin column, centrifuge at 11,000 x g for 1 min, discard the flow-through.
- Add 700 µl 100% EtOH into spin column, centrifuge at 11,000 x g for 1 min, discard the flow-through.
- Place spin column on a new 2 ml Collection Tube, centrifuge at 11,000 x g for 3 min to eliminate any remaining EtOH.
- Place spin column on a new 1.5 ml micro-centrifuge tube. Add 30-100 µl RNase-Free H₂O, incubation at room temperature for 5 min, and then centrifuge at 11,000 x g for 1 min for elution.



Connect LV Module with the Spin Column



Disconnect Spin Column from LV Column Module

