**Table. S1**. The viral load of HIV-1 RNA and human genomic DNA concentration in Panel A whole blood samples.

|  |  |  |
| --- | --- | --- |
| HIV whole blood samples | HIV-1 RNA quantification (IU/mL) | Human genomic DNA quantification (ng/uL) |
| HIV b1 | 1393.06 | 6.7 |
| HIV b2 | 2282.21 | 8.5 |
| HIV b3 | 672.08 | 8.9 |
| HIV b4 | 2575.78 | 7.8 |
| HIV b5 | 709.78 | 9.4 |

**Table. S2**. The viral load of HIV-1 RNA and human genomic DNA concentration in Panel A PBMC samples.

|  |  |  |
| --- | --- | --- |
| HIV PBMC samples | HIV-1 RNA quantification (IU/mL) | Human genomic DNA quantification (ng/uL) |
| HIV P1 | 2807.79 | 32.2 |
| HIV P2 | 7074.68 | 48.8 |
| HIV P3 | 10437.23 | 46.7 |
| HIV P4 | 4721.69 | 54.1 |
| HIV P5 | 3684.29 | 66.4 |

**Table. S3**. The viral load of HBV DNA and human genomic DNA concentration in Panel B samples.

|  |  |  |
| --- | --- | --- |
| HBV plasma samples | HBV DNA quantification (IU/mL) | Human genomic DNA quantification (ng/uL) |
| HBV p1 | 156991.11 | 0.204 |
| HBV p2 | 197900.00 | Undetermined |
| HBV p3 | 741200.00 | 0.116 |
| HBV p4 | 120300000.00 | 0.122 |
| HBV p5 | 41990.00 | Undetermined |
| HBV p6 | 2467.00 | Undetermined |
| HBV p7 | 1142.00 | Undetermined |
| HBV p8 | 153000.00 | 0.274 |
| HBV p9 | 194500.00 | Undetermined |
| HBV p10 | 1060000000.00 | Undetermined |