1 **Table S1.** Retrospective testing results between the direct RNA extraction metiod and virus

2 isolation distinguished by different rRT-PCR assays.

| Sabin 1 | | Virus Isolation | | |
|---|---|---|---|---|
| RNA extraction | | Positive | Negative | |
| | Positive | 21 | 13 | |
| | Negative | 1 | 7 | |
| | Total | | | 42 |

3 (McNemar's: $P$ =0.003)

| Sabin 2 | | Virus Isolation | | |
|---|---|---|---|---|
| RNA extraction | | Positive | Negative | |
| | Positive | 26 | 4 | |
| | Negative | 1 | 2 | |
| | Total | | | 33 |

4 (McNemar's: $P$ =0.4)

| Sabin 3 | | Virus Isolation | | |
| --- | --- | --- | --- | --- |
| RNA extraction | | Positive | Negative | |
| | Positive | 11 | 4 | |
| | Negative | 1 | 3 | |
| | Total | | | 19 |

5    (McNemar's: $P = 0.4$)

| WPV1 | | Virus Isolation | | |
| --- | --- | --- | --- | --- |
| RNA extraction | | Positive | Negative | |
| | Positive | 61 | 9 | |
| | Negative | 7 | 8 | |
| | Total | | | 85 |

6    (McNemar's: $P = 0.8$)

| PV Type 2 | | Virus Isolation | | |
| --- | --- | --- | --- | --- |
| RNA extraction | | Positive | Negative | |
| | Positive | 21 | 1 | |
| | Negative | 7 | 4 | |
| | Total | | | 33 |

7    (McNemar's: $P = 0.08$)

| WPV3 | | Virus Isolation | |
|---|---|---|---|
| RNA extraction | | Positive | Negative |
| | Positive | 3 | 0 |
| | Negative | 1 | 0 |
| | Total | | 4 |

8    (McNemar's: $P =1$)