Technical Description of the Armored RNA NTD + RBD BavPat1 (EU)

For RUO (Research Use Only)

Caution: The vials containing the Armored RNA (ArRNA) should be stored at -20°C in the dark. Stable at least 6 months in these conditions.

A vial contains material for 100 reactions.

The dilution of the ArRNA was adjusted to provide approximatively 4 x 10³ copies of RNA/μL

1. Rehydration of Lyophilized ArRNA

- Write the date on the vial before opening.
- Resuspend the ArRNA in 500µL RNase free water / vial.
- Homogenize by pipetting up and down in the glass vial a 250μL-volume 10 to 20 times
- Rehydrated ArRNA must be incubated at room temperature for 5 min before spiking.
- The total preparation or only a fraction of the preparation can be used for spiking followed by the routine extraction protocol. The remaining volume can be aliquoted and stored at -20°C or -80°C.

2. Protocol used for validation of the ArRNA BavPat1 at UVE (Unité des Virus Emergents, Marseille, France)

- 500μL of RNAse free was added in a vial and the ArRNA was resuspended as described above.
- 400μL were used for Extraction on EZ1 (Qiagen) platform using EZ1 Virus Mini Kit v2.1 (cat 955134)
- Nucleic acids were eluted in 60µl
- Nucleic acids were diluted in 440µl of PBS and 5μ l was used for real time RT-PCR with qRT-PCR One-step SuperScriptTM III PlatiniumTM kit, using 12.5µL of 2XMix, 7μ L of lyophilized Primers and Probes, 0.5μ L of Reverse Transcriptase and 5μ L of sample. The cycling conditions were defined as follow: 50° C for 15 min, 95° C for 2 min and 45 cycles of 95° C 15 sec; 60° C 45 sec.