virotype® IBV pan + NA Vax Primers/Probes

October 2025| EN

REF 100 samples (cat. no. PR284325) REF 500 samples (cat. No. PR284327)

Contents virotype IBV pan + NA Vax Primers/Probes	Volume	Volume	Storage conditions
Primers/Probes A (IBV pan, DMV/1639, GA08)	1x 210 µL	5x 210 µL	-30°C to -15°C
Primers/Probes B (GA08 variant, Mass)	1x 210 µL	5x 210 µL	-30°C to -15°C

Intended use

The virotype IBV pan + NA Vax Primers/Probes contain 2 tubes of primers and probes (A and B) for the amplification of RNA from *Infectious Bronchitis Virus* (IBV) and different North American (NA) IBV vaccine strains for multiplex real-time RT-PCR. The tube labelled Primers/Probes A contains 100 reactions of primers and probes to amplify RNA from all IBV strains and vaccine strains DMV/1639 and GA08. The tube labelled Primers/Probes B contains 100 reactions of primers and probes to amplify RNA from vaccine strains GA08 variant and Mass. Recombinant strains may be detected if their nucleic acid contains the PCR target region of the vaccine.

For research use only. This product is not intended for the diagnosis, prevention or treatment of a disease.

Preparation of PCR setup

- Thaw the virotype IBV pan + NA Vax Primers/Probes A or B on ice and protect from light.
- Invert the virotype IBV pan + NA Vax Primers/Probes A or B 5 times or until mixed thoroughly.
- Centrifuge briefly to remove droplets from the cap.
- A recommendation for a prepared RT-PCR reaction is provided in Table 1. For instance, prepare the RT-PCR reaction mix on ice by adding 2 µL of the virotype IBV pan + NA Vax Primers/Probes A or B per 25 µL PCR reaction.

Table 1. Example of an RT-PCR reaction mix

Component	Volume per reaction
Real-time RT-PCR Master Mix, e.g. IndiMix™ TAMRA (cat. no. MX299985, MX299987)	15 µL
virotype IBV pan + NA Vax Primers/Probes A or B	2 µL
Sample nucleic acid	8 µL
Total volume of PCR reaction	**25 µL**

- Invert the prepared master mix 5-10 times or until mixed thoroughly, then centrifuge briefly to remove the droplets from the cap.
- Pipette the master mix into each PCR tube or well. Handle in a PCR cool block or on ice.
- Collect the master mix and transfer it to the appropriate PCR tubes/wells, handle in a PCR cooling rack or on ice.
- Add the volume of sample based on the real-time RT-PCR Master Mix to the PCR tubes/wells.
- Close the tubes or seal the plate and invert 5 times or until mixed thoroughly.
- Spin for 5 seconds to centrifuge the droplets to the bottom of the PCR tube/wells.
- Run the thermal cycler program as indicated by the real-time RT-PCR Master Mix.

Filter setting

Primers/Probes **A**	
Target	Reporter
GA08	FAM™
IBV pan	JOE™
DMV/1639	Cy®5
Internal Control RNA*	TAMRA™

Primers/Probes **B**	
Target	Reporter
GA08 variant	FAM
Mass	Cy5
Internal Control RNA*	TAMRA

*When using the example RT-PCR reaction mix as shown in Table 1, IndiMix TAMRA contains intype IC primers and TAMRA labelled probe to detect the intype IC- RNA (IC289970), which serves as an exogenous internal control for extraction and amplification.

Analysis

The threshold should be analyzed independently for each reporter and determined based on the laboratory's criteria for each PCR run.

Recommendation: For the individual reporters (FAM, Cy5, and JOE), a manual threshold setting at 4 % of the maximum amplification signal of the Positive Control is recommended, respectively.

Storage and handling

Upon receipt, store the material at –30°C to –15°C, away from any sources of contaminating DNA or RNA, especially amplified DNA products and material used for PCR master mixes. Protect from light during storage and handling. Use aerosol barrier pipette tips for pipetting. Do not use after the expiration date printed on the label. Avoid repeated freeze/thaw cycles (**maximum 5x**) as this may reduce performance. If used intermittently, aliquot the material and freeze.

Safety information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate safety data sheets (SDSs). These are available from your regional sales manager or at **compliance@indical.com**. All sample residues and objects that have come into contact with samples must be decontaminated or disposed of as potentially infectious material. Dispose of all materials in accordance with national and local regulations.

Quality Control

Each lot of this product was manufactured and released in accordance with INDICAL's ISO-certified Quality Management System.

Change index

Product Sheet	Version	Change
HB-2680-EN-001	October 2025	Product Launch

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INDICAL BIOSCIENCE

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