

# virotype BVDV 2.0 workflow

Veterinary diagnosticians worldwide rely on INDICAL's molecular solutions for Bovine Viral Diarrhea Virus (BVDV) control, using it to test millions of calves annually. Building upon 15 years of experience, we have developed the new virotype BVDV 2.0 RT-PCR Kit (FLI-C 112) with increased ease of use and enhanced protocols.



## IndiMag prefilled cartridges

- For flexible, automated, magnetic bead-based extraction and purification of BVDV-RNA using 96-well plate platforms or the IndiMag 48s



## virotype Tissue Lysis Reagent

- Lysis buffer for fast, convenient and inexpensive preparation of RNA from ear tissue samples



## virotype BVDV 2.0 RT-PCR Kit

- **Faster time to result**  
RT-qPCR runtime of ~1 hour\*
- **Gold standard sensitivity and specificity**  
Next-generation triplex real-time RT-PCR assay for reliable identification of all known BVDV genotypes
- **Additional internal controls for greater confidence**  
Endogenous Internal Control ( $\beta$ -actin) and Exogenous Internal Control
- **Increased ease of use**  
Ready-to-use reagents including a single reaction mix, saving precious lab time
- **Multiple validated sample types**  
Blood, plasma, serum, tissue, milk, and ear tissue from cattle
- **Extended pooling options:\*\***

**25**

Ear tissue

**100**

Blood, plasma,  
serum, milk

\* See virotype BVDV 2.0 RT-PCR Kit Handbook for detailed information.

\*\* The high sensitivity of the virotype BVDV 2.0 RT-PCR Kit permits blood samples (whole blood, plasma, serum) and milk samples to be tested in pools consisting of up to 100 individual samples, and ear tissue samples in pools of up to 25 individual samples. Pool recommendations and regulations may vary between countries.

# Test with our best – virotype BVDV 2.0 RT-PCR Kit

BVDV RNA can be reliably detected with the virotype BVDV 2.0 RT-PCR Kit in pools of up to 100 serum and blood samples.

BVDV-FAM: Ct values					BVDV-FAM: Ct values				
Sample number	Sample material	Individual sample	Pools of 50	Pools of 100	Sample number	Sample material	Individual sample	Pools of 50	Pools of 100
01	Serum	21.14	27.98	29.51	14	Serum	24.16	30.06	30.87
02	Serum	27.29	34.89	35.34	15	Serum	26.11	32.70	33.53
03	Serum	20.40	26.75	27.85	16	Serum	29.03	33.13	33.98
04	Serum	26.99	33.45	34.40	18	Serum	24.35	30.17	31.16
05	Serum	24.06	30.70	30.02	10	Fetal calf serum	33.26	38.34	39.25
06	Serum	30.78	35.40	36.27	7	EDTA blood	22.96	26.33	28.60
08	Serum	24.18	30.58	32.43	12	EDTA blood	20.66	27.12	28.18
09	Serum	28.06	32.31	33.77	13	EDTA blood	19.84	26.33	27.47
11	Serum	24.82	29.67	30.72	17	EDTA blood	21.31	26.03	27.22

**Table:** Pools of 50 and 100 were generated by diluting BVDV-positive serum and EDTA blood samples in BVDV-negative bovine serum and extracted using the IndiMag Pathogen IM48 Cartridge. Following the virotype protocol, individual and pooled samples were then tested with the new virotype BVDV 2.0 RT-PCR Kit on the Bio-Rad CFX96 thermocycler.

## Ordering information

		Cat. no. (number of reactions/preps)		
Product	Short description	S	M	L
<b>NEW!</b> virotype BVDV 2.0 RT-PCR Kit <sup>†</sup>	Real-time RT-PCR assay for identification of RNA from Bovine Viral Diarrhea Virus (BVDV).		VT280385 (100)	VT280387 (500)
<b>A perfect match:</b> Get the best results in downstream testing with our extraction cartridges and kits, suitable for high- and low-throughput testing.				
IndiMag Pathogen IM48 Cartridge	Prefilled reagent cartridges for automated magnetic bead-based extraction of viral RNA/DNA and bacterial DNA. Designed for the IndiMag 48/48s.	SP947654P608 (6 x 8)	SP947654P224 (2 x 24)	
IndiMag Pathogen KF96 Cartridge	Prefilled reagent cartridge for automated magnetic bead-based extraction of viral RNA/DNA and bacterial DNA. Designed for the KingFisher Flex and equivalent 96-well plate platforms.		SP947855P196 (1 x 96)	
IndiMag Pathogen Kit w/o plastics	Extraction of viral RNA/DNA and bacterial DNA based on magnetic bead technology. Designed for the IndiMag 48/48s, and/or KingFisher Flex and equivalent 96-well plate platforms.			SP947257 (384)
IndiSpin Pathogen Kit	Extraction of viral RNA/DNA and bacterial DNA based on silica membrane technology.	SP54104 (50)	SP54106 (250)	
virotype Tissue Lysis Reagent	Fast lysis of bovine ear tissue samples.		SP289992 (100 mL)	SP289993 (250 mL)

<sup>†</sup> Product availability/distribution: Outside the U.S. and Canada

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