

Detection of Fish Diseases by Microchip PCR

1. Rapid RNA extraction (60 min) and real-time RT-PCR procedures (60 min)
2. Simplified PCR setup due to lyophilized reagents on a microchip
3. Simultaneous multiple pathogen detection in a single sample
4. Laboratory space saving

The whole diagnostics of fish diseases including sample preparation takes 120 min. Simultaneous analysis of four fish samples is performed on a single microchip and four pathogenic viruses can be detected in each sample:

- viral haemorrhagic septicaemia virus (VHS)
- infectious pancreatic necrosis virus (IPN)
- infectious haematopoietic necrosis virus (IHN)
- spring viraemia of carp virus (SVC)



Analysis Flow-Chart

MICROCHIP REAL-TIME RT-PCR:

Microchip contains lyophilized RT-PCR reagents for the detection of VHS, IHN, IPN, SVC including positive control C⁺, negative control C⁻, and internal control IC samples.



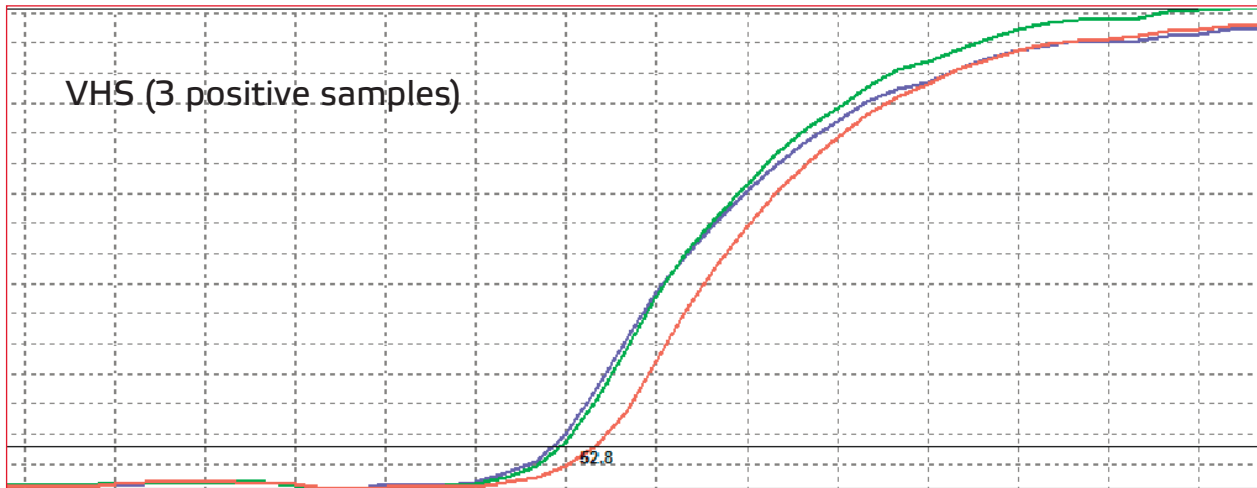
1

Extract viral RNA from fish samples

2

Mix RNA samples with buffer and add them into the microchip reactors

THE RESULTS OF VIRUS DETECTION IN FISH SAMPLES:



The real time PCR amplification curves

3

Insert the microchip into the AriaDNA[®] analyzer and run the analysis via the software on a PC

4

Obtain results and print report in 60 min

The information in this publication is referential.

LUMEX[®]

Lumex Instruments Canada
0890278 B.C. Ltd.
Unit 207, 31510 Gill Ave., Mission,
B.C., V4S0A1, Canada
Toll free: +1 866-233-6057
Phone: +1 709-570-7538
E-mail: info@lumexinstruments.com
www.lumexinstruments.com

Lumex Analytics GmbH
Naher Str. 8
24558 Wakendorf II, Germany
Tel.: +49 (0) 4535 297-756
Fax: +49 (0) 4535 297-783
E-mail: info@lumexanalytics.de
www.lumexanalytics.de

Lumex-Marketing LLC
pr. Obukhovskoy Oborony, 70, bldg.
2, St. Petersburg 192029, Russia
Tel.: +7 (812) 718-5390
Fax: +7 (812) 718-5399
E-mail: sales@lumex.ru
Post address:
BOX 1234, St. Petersburg,
190000, Russia
www.lumex.ru

**Beijing Lumex Analytical
Equipment Co. Ltd.**
Room 106, Qing Feng Hua Jing
Yuan Trade Center, building 5, Xue
Qing Road, Haidian District, Beijing,
100085, PR China
Tel.: +86 (10) 6-777-1980/2
Fax: +86 (10) 6-777-1981
E-mail: lumex@lumex.com.cn
www.lumexcn.com



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