

QuickGene QuickGene Series **Application Guide**

VNN(Viral Nervous Necrosis) RNA Isolation from Tilefish

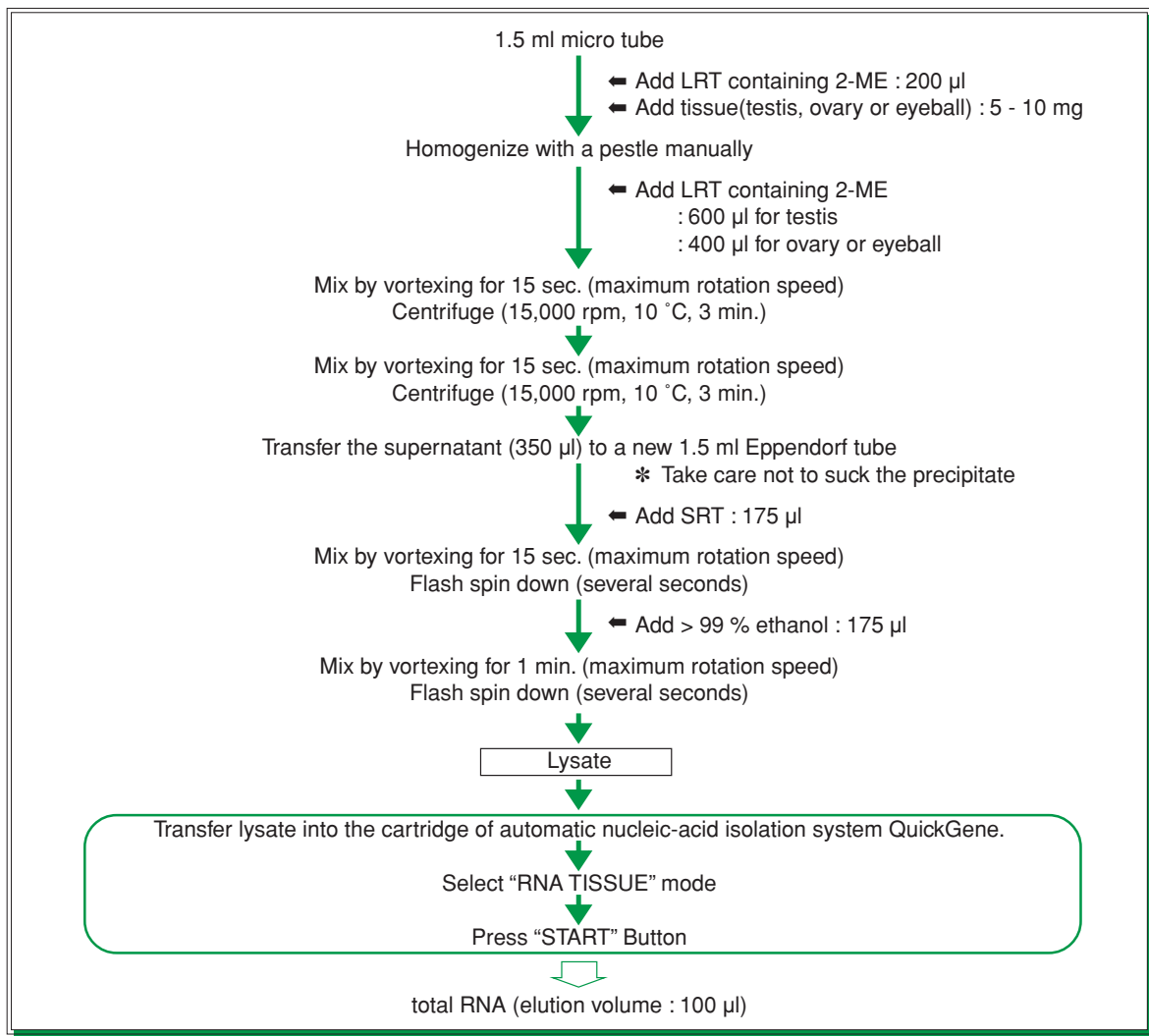
Kit : QuickGene RNA tissue kit S

Model : QuickGene-810

Summary

Enables easy and rapid total RNA isolation from tilefish and diagnosis of VNN infection in tilefish by detecting only VNN RNA by RT-PCR

Protocol



Results : Isolation of VNN RNA from tilefish

Total RNA was isolated from testis, ovary and eyeball of tilefish using QuickGene system (QuickGene-810 and QuickGene RNA tissue kit S). Then, diagnosis of VNN infection was made by RT-PCR and Nested PCR using isolated total RNA.

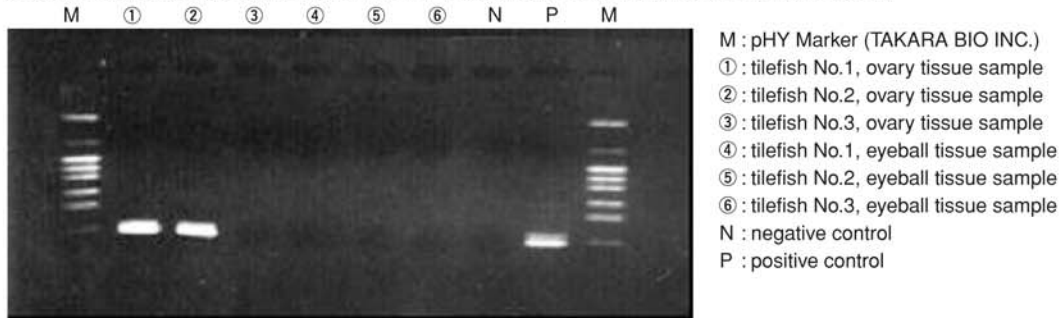
● RT-PCR

RT-PCR performed on RNA isolated using QuickGene

RT-PCR : Amplification was performed on isolated RNA, targeting T4 region of RGNNV coat protein gene.

Nested PCR : Amplification was performed using the primer specific to RG type among 4 genotypes of betanodavirus.

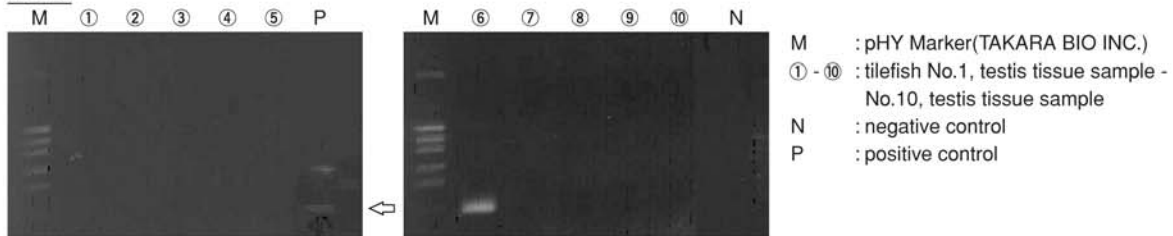
Sample : ovaries and eyeballs of 3 native tilefish ♀ (each tissue was taken from the same individual)



Result : Amplification products similar to those of positive control were confirmed for ovaries of No.1,2.

Sample : testes and eyeballs of 10 native tilefish ♂ (each tissue was taken from the same individual)

Testes



eyeballs



Result : Amplification products were confirmed for testes of No.6 and eyeballs of No.2.

Reference data : data of VNN Control Technique Workshop, Kamiura National Center for Stock Enhancement, Fisheries Research Agency

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