HELINI™
MagSpin Shrimp Nucleic acid Mini Spin Prep Kit

Cat. No. 2552- 25/50/100 Preps

Handbook

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Kit components

No. of reactions **Catalogue Number**	25 2552	50 2552	100 2552
Lysis Buffer	20ml	40ml	80ml
Elution Buffer	10ml	20ml	40ml
Magnetic beads	0.7ml	1.4ml	2.8ml
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Storage

Store in room temperature.

Technical Assistance

For technical assistance and more information, please contact;

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Safety Information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. Discard sample and assay waste according to your local safety regulations.

Material Required

- Micro Pipettes Variable Volume 10-100µl, and 100-1000µl
- Sterile pipette tips with aerosol barrier 10-100µl, and 100-1000µl
- Disposable powder-free gloves
- Vortex mixer / Water bath
- Centrifuge with rotor for 1.5 ml reaction tubes
- 1.5ml/2ml centrifuge tubes
- 70% ethanol
- Micro pestle

Introduction

HELINI MagSpin Nucleic acid Mini spin prep Kit is designed for rapid and cost-effective small-scale preparation of high-quality nucleic acid from shrimp biological samples. The kit utilizes an exclusive Magnetic beads technology. The standard procedure takes less than 20 minutes following cell lysis and yields purified viral nucleic acid. Isolated Viral nucleic acid can be used directly in RT-PCR/PCR.

Important Notes:

All purification steps should be carried out at room temperature.

All centrifugations should be carried out in a table-top micro-centrifuge at >12000 x g (12000-14000 rpm, depending on the rotor type).

Procedure:

Sample preparation

Size of the Shrimp	Sample source	Sample size
More than 30grms	Gill	Half piece
	Pleopod	Half leg
	Hepatopancreas	~10mm³
Between 10gms to 30gms	Gill	One piece
	Pleopod	One leg
	Hepatopancreas	~10mm³
Between 2cm to 10gms	Gill	Few piece
	Pleopod	Few legs
	Hepatopancreas	~10mm³
Around 1 to 2cm	Head	1/2 to 1 head
PL 1 to PL 12	Whole animal	10 to 20 pieces
More than PL 12	Whole animal	5 to 10 pieces

Stomach	1 piece
Mid-gut	1 cm
Fecal sample	1 cm
Feed organism [Artemia, Oyster, Squid and Blood worm]	20mg
Pond water	For 1.5ml pond water, centrifuge at 12000rpm for 3minutes. Discard the supernatant, resuspend the pellet in 200µl sterile distilled water or PBS.

Note: Set water bath or Dry bath to 56°C**.**

1. Transfer the recommended quantity of shrimp sample in to 1.5ml centrifuge tube, add 800µl of Lysis buffer, using micro pestle, homogenise/grind well. [Intermediate vortex will help to dislodge and grind the sample effectively]

2. Incubate in room temperature for 5min. Centrifuge at 12000rpm for 3min and transfer 600µl of supernatant into fresh 1.5ml centrifuge tube.

3. Add 25µl of Magnetic beads and vortex well for 30seconds.

4. Incubate at room temperature for 3min.

5. Centrifuge at 12000rpm for 15 seconds and discard the supernatant.

6. Add 1ml of 70% ethanol [not provided in the kit] and vortex well to dislodge and suspend beads thoroughly.

7. Centrifuge at 12000rpm for 15seconds and discard the supernatant.

8. Add 1ml of 70% ethanol [not provided in the kit] and vortex well to dislodge and suspend beads thoroughly.

9. Centrifuge at 12000rpm for 15seconds and discard the supernatant. Important: Pipette out if any drops of 70% ethanol remain in the tube.

10. Add 400µl of elution buffer and vortex well for 30seconds. Incubate at 56ºC for 3min. [Water bath/Dry bath]

11. Centrifuge at 12000rpm for 15seconds and transfer the clear supernatant 350µl in to fresh 1.5ml micro centrifuge tube.

12. Use immediately or Store at -20C for later analysis.

Recommendation for Real-time PCR/PCR:

Use 2.5 - 20µl of elute

Manufactured and Marketed by

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