

HUNTER HAZELNUT

Cat. No. F02-05-1114

Real-time PCR test kit for qualitative detection of
Hazelnut genetic sequences in food

Includes main components for 100 PCR amplification reactions



Rev. 0
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HAI KANG LIFE CORPORATION LIMITED

PLEASE READ THROUGH THE ENTIRE PROTOCOL BEFORE STARTING.

1. KIT COMPONENTS

- 3 x 400 µl Hazelnut Real-time Mastermix (store at -20°C)
- 1 x 50 µl Positive Control (store at -20°C)

Storage conditions

The mastermixes and positive controls should be stored at -20°C. Real-time mastermixes contain light-sensitive components, it is recommended to wrap the tubes with aluminum foil.

Note:

Please aliquot the mastermix solutions into appropriate volume according to your test frequency, in order to minimize repeated freeze and thaw cycles. Frequent thawing and freezing may inactivate some kit components.

2. PROCEDURE

Note: Thaw kit reagents just before use. Mix thawed reagents thoroughly. Do not vortex the enzyme-containing mastermix. Only thaw as many PCR master mix tubes as are required.

- Thaw PCR mastermix solutions on ice. Make sure the tubes are protected from light.
- Set up mastermix and PCR components according to the table below:

Component	Volume per reaction (µl)
Real-time mastermix	11.2
DNA template	X
Double-distilled water	8.8 - X
Total Volume	20

Note: For each real-time PCR assay, positive controls (use 2 µl) and negative control (use 2 µl water) should be included. Test samples should be prepared in duplicate PCR reactions.

- Use appropriate volume of DNA template and double-distilled (dd) water. Use ~100-200 ng DNA template for each PCR reaction. (DNA concentration should have been determined spectrophotometrically after DNA extraction steps.)

Note: Use real time PCR tubes and consumable recommended for your real-time PCR equipment.

- When all PCR reactions are set up, load all PCR tubes into the real-time PCR equipment using cycling conditions shown below:

			Data Collection Points (FAM Filter)		
			ABI 7700	ABI 7300	Other Instruments
1 Cycle	50°C	2 Minutes	☐	-	-
	95°C	10 Minutes	☐	-	-
40 Cycles	95°C	15 Seconds	☐	-	-
	60°C	60 Seconds	☐	☐	☐

(Take readings at point ☐)

3. DATA COLLECTION AND ANALYSIS

Detailed explanations of the basic and advanced operating procedures should be provided with your real-time PCR equipment. This kit is optimised using the Applied Biosystems (ABI) 7700 and 7300 Sequence Detection systems.

The calculation of the most appropriate cut-off limit to adequately discriminate between genuine positive and negative samples is a relatively straightforward procedure. However, care must be taken to calculate the cut-off limit for each set of experiments that are conducted.

In general, Ct values of 40 in replicate samples are presumed to be negative for the template of interest. If one replicate gives a Ct <40 while another gives a Ct of 40, the result is inconclusive and the analysis should be repeated. If all replicates consistently give Ct <40, the sample is positive for the presence of template.

If you require more detailed analysis information, please contact Hai Kang Life Corporation Limited for technical assistance.

4. TECHNICAL ASSISTANCE

Our technical staff will provide technical assistance you may need in using this kit. Simply call +(852) 2111 2123 during office hours:

Monday – Friday: 9:00am to 5:30pm
Saturday: 9:00am to 1:00pm

A recorded message (in English, Cantonese or Putonghua) may be left outside office hours. Alternatively, you are welcomed to contact our technical staff by fax or email.

Fax: +(852) 2111 9762
Email: technical@haikanglife.com

5. WARRANTIES AND LIABILITIES

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