

E. coli O157:H7 TaqMan Probe/Primer and Control Set - 100 Reactions

Product # TM41310

Component	Product # TM41310 (100 Reactions)
<i>E. coli</i> O157:H7 Primer & Probe Mix	1 x 280 µL
<i>E. coli</i> O157:H7 Positive Control	1 x 150 µL
Nuclease-Free Water	1 x 1.25 mL

Applications

TaqMan Probe/Primer and Control Set for *E. coli* O157:H7 detection using real-time PCR based on the use of TaqMan® technology. Positive signals for *E. coli* O157:H7 toxins will be detected simultaneously, but can also be distinguished by different channels (see the table of *E. coli* O157:H7 TaqMan PCR Assay Interpretation).

Storage Conditions and Product Stability

Store all the components at -20°C upon arrival. All kit components can be stored for 2 years after the date of production without showing any reduction in performance.

Precautions and Disclaimers

This product is designed for research purposes only. It is not intended for human or diagnostic use.

Customer-Supplied Reagents and Equipment

Appropriate Real-Time PCR Instrument with FAM, Cy5 and HEX filter channel

Procedures

Recommended Reaction Conditions:

- *E. coli* O157:H7 Primer Mix (2 µL per 20 µL PCR reaction)
- *E. coli* O157:H7 Positive Control (2-8 µL per 20 µL PCR reaction)

Description

The positive control is a cloned partial *E. coli* O157:H7

Recommended TaqMan PCR Assay

One Step RT-PCR Cycle	Step	Temperature	Duration
Cycle 1	Step 1	95°C	3 min
Cycle 2 (40x)	Step 1	95°C	15 sec
	Step 2	60°C	30 sec

***E. coli* O157:H7 TaqMan PCR Assay Interpretation**

FAM (Target 1)	Cy5 (Target 2)	HEX (PCR validation)	Result
+	+	+	Positive
-	+	+	Negative (Other Shiga-toxin producing bacteria)
+	-	+	Negative (Other Shiga-toxin producing bacteria)
-	-	+	Negative
-	-	-	PCR inhibited

Technical Support

Contact our Technical Support Team between the hours of 8:30 and 5:30 (Eastern Standard Time) at (905) 227-8848 or Toll Free at 1-866-667-4362. Technical support can also be obtained from our website or through email at techsupport@norgenbiotek.com.