

GeneChaser Anaerobic Multi

Cat. NO.RDM-1133

General description Campylobacteriosis is a foodborne disease caused by *Campylobacter jejuni* and *Campylobacter coli*. Most people become ill with abdominal pain, diarrhea and fever, within 2–7 days after infection. The RapiGEN GeneChaser Anaerobic Multi kit amplifies specific genes of *Campylobacter jejuni/coli* and *Clostridium perfringens* at a time by multiplex PCR.

Content	Quantity
Positive size marker(5µl per test)	110µl
Primer mixture(10µl per test)	260µl
Premixture(1 tube per test)	96 tubes
DNA extraction buffer(100µl per test)	10 ml

Protocol

(Food) Sample 25g + Anaerobic Broth 225 mL

(Environment) Swab + Anaerobic Broth 10 mL

↓

Incubation 37°C, 4–5 hrs
(1 cell → 10⁵ cell)

↓

DNA extraction 1 hr

↓

PCR 1–2 hrs

↓

Electrophoresis 30 min

↓

Date analysis

(PCR condition)

95°C	3 min	1 cycle
94°C	20 sec	
63°C	20 sec	40 cycle
72°C	45 sec	
72°C	5 min	1 cycle

Result

M	100bp DNA ladder	
1	<i>Campylobacter jejuni</i>	249bp
	<i>Campylobacter coli</i>	
2	<i>Clostridium perfringens</i>	445bp
3	1+2	-
4	Running control band	872bp
5	Positive size marker	-

Interpretation

- ▶ Detectable strain: Gene
 - *Campylobacter jejuni/ coli*: 249bp
 - *Clostridium perfringens*: 445bp
- ▶ Detection limit: 10⁵ cell /Tube

