

**GeneChaser *E. coli* Agg Mono**

Cat. NO.RDM-1125

■ **General description** The RapiGEN GeneChaser LAEC (localized adhesion *E. coli*) monotype PCR kit amplifies specific *agg* and *ast1* gene of *E. coli* by PCR.

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

■ **Protocol**

**(Food) Sample 25g + Modified EC Broth 225 mL**

**(Environment) Swab + Modified EC Broth 10 mL**

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**Incubation**

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**DNA extraction**

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**PCR**

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**Electrophoresis**

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**Date analysis**

**(PCR condition)**

95 $^{\circ}$ C	3 min	1 cycle
94 $^{\circ}$ C	20 sec	
63 $^{\circ}$ C	20 sec	40 cycle
72 $^{\circ}$ C	45 sec	
72 $^{\circ}$ C	5 min	1 cycle

37 $^{\circ}$ C, 2-3 hrs  
(1 cell  $\rightarrow$  10<sup>2</sup> cell)

1 hr

1-2 hrs

30 min

■ **Result**

Lane M	100bp DNA ladder
Lane 1	<i>E. coli</i> 10 <sup>7</sup> cell /Tube
Lane 2	<i>E. coli</i> 10 <sup>6</sup> cell /Tube
Lane 3	<i>E. coli</i> 10 <sup>5</sup> cell /Tube
Lane 4	<i>E. coli</i> 10 <sup>4</sup> cell /Tube
Lane 5	<i>E. coli</i> 10 <sup>3</sup> cell /Tube
Lane 6	<i>E. coli</i> 10 <sup>2</sup> cell /Tube
Lane 7	Running control band

■ **Interpretation**

- ▶ Detectable strain: Gene
  - *E. coli*: *agg* (110bp)
  - *E. coli*: *ast1* (165bp)
- ▶ Detection limit : 10<sup>2</sup> cell /Tube