

# Prepared Media Plates for Microbiological Testing

## Easy Plate™ EC (Medi·Ca EC)

### Inclusivity and Exclusivity

#### ● *E. Coli*

According to the research by DNP

Strain name	Source	Easy Plate EC (Medi·Ca EC)	Chromogenic agar media	BGLB broth
<i>Escherichia coli</i>	NBRC102203	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC12062	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC12433	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC12734	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC13500	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC15034	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC3972	+ (Blue-Purple)	+ (Purple)	+
<i>Escherichia coli</i>	ATCC25922	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC3301	+ (Blue-Purple)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC13540	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC3543	+ (Blue-Purple)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC3806	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC3991	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC13898	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	NBRC14129	+ (Blue-Purple)	+ (Purple)	+
<i>Escherichia coli</i>	D0099	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	D0100	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	D0101	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	D0102	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i>	D0104	+ (Navy-Blue)	+ (Purple)	+
<i>Escherichia coli</i> O157:H7※	ATCC43895	- (Red-Purple)		
<i>Escherichia coli</i> O26:NM	RIMD05091876	+ (Blue-Purple)		

※ (+): Positive, (-): Negative, ( ) Color of colony

※ *Escherichia coli* O157 is detected as non-*E. coli* coliform and forms red-purple colonies because it does not produce β-glucuronidase.

#### ● Non-*E. coli* Coliform

According to the research by DNP

Strain name	Source	Easy Plate EC (Medi·Ca EC)	Chromogenic agar media	BGLB broth
<i>Citrobacter amalonaticus</i>	NBRC13547	+ (Red-Purple)	+ (Pink)	+
<i>Citrobacter freundii</i>	NBRC12681	+ (Red-Purple)	+ (Pink)	+
<i>Citrobacter koseri</i>	NBRC105690	+ (Red-Purple)	+ (Pink)	+
<i>Cronobacter sakazakii</i>	D0003	+ (Red-Purple)	+ (Pink)	+
<i>Buttiauxella noackiae</i>	D0077	+ (Pink)	+ (Pink)	+
<i>Enterobacter asburiae</i>	D0029	+ (Red-Purple)	+ (Pink)	+
<i>Enterobacter aerogenes</i>	NBRC13534	+ (Red-Purple)	+ (Pink)	+
<i>Enterobacter amnigenus</i>	D0037	+ (Red-Purple)	+ (Pink)	+
<i>Enterobacter cloacae</i>	D0030	+ (Red-Purple)	+ (Pink)	+
<i>Enterobacter cloacae</i>	ATCC222	+ (Red-Purple)	+ (Pink)	+
<i>Enterobacter cloacae</i>	D0033	+ (Pink)	+ (Pink)	+
<i>Escherichia blattae</i> ( <i>Shimwellia blattae</i> )※	NBRC105725	-	- (Pink)	-
<i>Escherichia fergusonii</i>	NBRC102419	+ (Red-Purple)	+ (Pink)	+
<i>Escherichia hermannii</i>	NBRC105704	+ (Red-Purple)	+ (Pink)	+
<i>Escherichia vulneris</i>	NBRC102420	+ (Red-Purple)	+ (Pink)	+
<i>Klebsiella oxytoca</i>	D0032	+ (Pink)	+ (Pink)	+
<i>Klebsiella oxytoca</i>	NBRC105695	+ (Red-Purple)	+ (Pink)	+
<i>Klebsiella pneumoniae</i>	ATCC13883	+ (Red-Purple)	+ (Pink)	+
<i>Kluyvera cryocrescens</i>	NBRC102467	+ (Red-Purple)	+ (Pink)	+
<i>Leclercia adecarboxylata</i>	NBRC102595	+ (Red-Purple)	+ (Pink)	+
<i>Pantoea agglomerans</i>	D0004	+ (Pink)	+ (Pink)	-
<i>Rahnella aquatilis</i>	D0053	+ (Red-Purple)	+ (Pink)	-
<i>Rahnella</i> sp.	D0023	+ (Red-Purple)	+ (Pink)	-
<i>Raoultella terrigena</i>	D0022	+ (Red-Purple)	+ (Pink)	+

※ (+): Positive, (-): Negative, ( ) Color of colony

※ *Escherichia blattae* cannot be detected because it does not produce β-galactosidase.

※ Numbers starting with D indicate strains that were isolated from foods by Dai Nippon Printing Co., Ltd.

## ● Non-Coliform

According to the research by DNP

Strain name	Source	Easy Plate EC ( Medi・Ca EC )	Chromogenic agar media	BGLB broth
<i>Achromobacter xylosoxidans</i>	NBRC15126	-	- (White)	-
<i>Bacillus amyloxycheifaciens</i>	D0015	-	-	-
<i>Bacillus cereus</i>	NBRC3836	-	-	-
<i>Bacillus coagulans</i>	NBRC12583	-	-	-
<i>Bacillus licheniformis</i>	D0010	-	-	-
<i>Bacillus megaterium</i>	NBRC15308	-	-	-
<i>Bacillus subtilis</i>	D0021	-	-	-
<i>Bacillus thuringiensis</i>	NBRC3951	-	-	-
<i>Corynebacterium variabile</i>	NBRC15286	-	-	-
<i>Edwardsiella tarda</i>	NBRC105688	-	- (White)	-
<i>Enterococcus faecalis</i>	ATCC29212	-	-	-
<i>Enterococcus faecium</i>	NBRC100486	-	-	-
<i>Kocuria rhizophila</i>	D0008	-	-	-
<i>Lactobacillus casei</i>	D0025	-	-	-
<i>Lactobacillus delbrueckii</i>	NBRC3202	-	-	-
<i>Lactococcus lactis</i>	D0026	-	-	-
<i>Leuconostoc mesenteroides</i>	D0057	-	-	-
<i>Micrococcus luteus</i>	NBRC3333	-	-	-
<i>Proteus hauseri</i>	NBRC3851	-	- (White)	-
<i>Proteus mirabilis</i>	NBRC105697	-	- (White)	-
<i>Pseudomonas aeruginosa</i>	NBRC3899	-	- (White)	-
<i>Pseudomonas mendocina</i>	NBRC14162	-	- (White)	-
<i>Pseudomonas sp.</i>	D0054	-	- (White)	-
<i>Salmonella enterica</i>	NBRC105726	-	- (White)	+
<i>Serratia liquefaciens</i>	D0027	-	- (White)	-
<i>Serratia marcescens</i> ※	NBRC102204	+ (Red-Purple)	+ (Pink)	-
<i>Serratia rubidaea</i> ※	NBRC12973	+ (Red-Purple)	+ (Pink)	-
<i>Staphylococcus epidermidis</i>	NBRC100911	-	-	-
<i>Staphylococcus aureus</i>	D0072	-	-	-
<i>Staphylococcus aureus</i>	ATCC25923	-	-	-
<i>Staphylococcus carnosus</i>	D0086	-	-	-
<i>Staphylococcus gallinarum</i>	D0061	-	-	-
<i>Staphylococcus intermedius</i>	ATCC29663	-	-	-
<i>Staphylococcus saprophyticus</i>	D0009	-	-	-
<i>Staphylococcus simulans</i>	NBRC109714	-	-	-
<i>Staphylococcus sp.</i>	D0058	-	-	-
<i>Staphylococcus xylosus</i>	NBRC109770	-	-	-
<i>Yersinia frederiksenii</i>	D0052	-	- (White)	-

※ (+): Positive, (-): Negative, ( ) Color of colony

※ Some *Serratia* species may be classified as coliform because of the  $\beta$ -galactosidase production.

※ Numbers starting with D indicate strains that were isolated from foods by Dai Nippon Printing Co., Ltd.

※ These results are just examples and may vary depending on the condition of the strain, culture conditions, etc.

※ Incubation Condition

Easy Plate EC ( Medi・Ca EC ) : 35±1°C, 24 hours

Chromogenic agar media : 35±1°C, 24 hours

BGLB broth : 35±1°C, 24-48 hours

Dilution solution: Butterfield's phosphate-buffered diluent)



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