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
Escherichia coli	NBRC102203	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	NBRC12062	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	NBRC12433	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	NBRC12734	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	NBRC13500	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	NBRC15034	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	NBRC3972	+ (Blue-Purple)	+ (Purple)	+
Escherichia coli	ATCC25922	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	NBRC3301	+ (Blue-Purple)	+ (Purple)	+
Escherichia coli	NBRC13540	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	NBRC3543	+ (Blue-Purple)	+ (Purple)	+
Escherichia coli	NBRC3806	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	NBRC3991	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	NBRC13898	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	NBRC14129	+ (Blue-Purple)	+ (Purple)	+
Escherichia coli	D0099	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	D0100	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	D0101	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	D0102	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli	D0104	+ (Navy-Blue)	+ (Purple)	+
Escherichia coli O157:H7※	ATCC43895	- (Red-Purple)		
Escherichia coli 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
Citrobacter amalonaticus	NBRC13547	+ (Red-Purple)	+ (Pink)	+
Citrobacter freundii	NBRC12681	+ (Red-Purple)	+ (Pink)	+
Citrobacter koseri	NBRC105690	+ (Red-Purple)	+ (Pink)	+
Cronobacter sakazakii	D0003	+ (Red-Purple)	+ (Pink)	+
Buttiauxella noackiae	D0077	+ (Pink)	+ (Pink)	+
Enterobacter asburiae	D0029	+ (Red-Purple)	+ (Pink)	+
Enterobacter aerogenes	NBRC13534	+ (Red-Purple)	+ (Pink)	+
Enterobacter amnigenus	D0037	+ (Red-Purple)	+ (Pink)	+
Enterobacter cloacae	D0030	+ (Red-Purple)	+ (Pink)	+
Enterobacter cloacae	ATCC222	+ (Red-Purple)	+ (Pink)	+
Enterobacter cloacae	D0033	+ (Pink)	+ (Pink)	+
Escherichia blattae (Shimwellia blattae)※	NBRC105725	-	- (Pink)	-
Escherichia fergusonii	NBRC102419	+ (Red-Purple)	+ (Pink)	+
Escherichia hermanii	NBRC105704	+ (Red-Purple)	+ (Pink)	+
Escherichia vulneris	NBRC102420	+ (Red-Purple)	+ (Pink)	+
Klebsiella oxytoca	D0032	+ (Pink)	+ (Pink)	+
Klebsiella oxytoca	NBRC105695	+ (Red-Purple)	+ (Pink)	+
Klebsiella pneumoniae	ATCC13883	+ (Red-Purple)	+ (Pink)	+
Kluyvera cryocrescens	NBRC102467	+ (Red-Purple)	+ (Pink)	+
Leclercia adecarboxylata	NBRC102595	+ (Red-Purple)	+ (Pink)	+
Pantoea agglomerans	D0004	+ (Pink)	+ (Pink)	-
Rahnella aquatilis	D0053	+ (Red-Purple)	+ (Pink)	-
Rahnella sp.	D0023	+ (Red-Purple)	+ (Pink)	-
Raoultella terrigena	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
Achromobacter xylosoxidans	NBRC15126	-	- (White)	-
Bacillus amylolychefaciens	D0015	-	-	-
Bacillus cereus	NBRC3836	-	-	-
Bacillus coagulans	NBRC12583	-	-	-
Bacillus licheniformis	D0010	-	-	-
Bacillus megaterium	NBRC15308	-	-	-
Bacillus subtilis	D0021	-	-	-
Bacillus thuringiensis	NBRC3951	-	-	-
Corynebacterium variabile	NBRC15286	-	-	-
Edwardsiella tarda	NBRC105688	-	- (White)	-
Enterococcus faecalis	ATCC29212	-	-	-
Enterococcus faecium	NBRC100486	-	-	-
Kocuria rhizophila	D0008	-	-	-
Lactobacillus casei	D0025	-	-	-
Lactobacillus delbrueckii	NBRC3202	-	-	-
Lactococcus lactis	D0026	-	-	-
Leuconostoc mesenteroides	D0057	-	-	-
Micrococcus luteus	NBRC3333	-	-	-
Proteus hauseri	NBRC3851	-	- (White)	-
Proteus mirabilis	NBRC105697	-	- (White)	-
Pseudomonas aeruginosa	NBRC3899	-	- (White)	-
Pseudomonas mendocina	NBRC14162	-	- (White)	-
Pseudomonas sp.	D0054	-	- (White)	-
Salmonella enterica	NBRC105726	-	- (White)	+
Serratia liquefaciens	D0027	-	- (White)	-
Serratia marcescens※	NBRC102204	+ (Red-Purple)	+ (Pink)	-
Serratia rubidaea※	NBRC12973	+ (Red-Purple)	+ (Pink)	-
Staphylococcu epidermidis	NBRC100911	-	-	-
Staphylococcus aureus	D0072	-	-	-
Staphylococcus aureus	ATCC25923	-	-	-
Staphylococcus carnosus	D0086	-	-	-
Staphylococcus gallinarum	D0061	-	-	-
Staphylococcus intermedius	ATCC29663	-	-	-
Staphylococcus saprophyticus	D0009	-	-	-
Staphylococcus simulans	NBRC109714	-	-	-
Staphylococcus sp.	D0058	-	-	-
Staphylococcus xylosus	NBRC109770	-	-	-
Yersinia frederiksenii	D0052	-	- (White)	-

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

※ Some Serratia species may be classified as coliform because of the β-galactosidase production.

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

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※ Incubation Condition

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

Chromogenic agar media：35±1℃, 24 hours

BGLB broth：35±1℃, 24-48 hours

Dilution solution: Butterfield's phosphate-bufferd diluent)

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