IBC Approval Needed for Research Involving E. coli Strains

All research involving *Escherichia coli* Host-Vector Systems at the University of Michigan requires IBC approval, including K-12 lab strains and its derivates, non-K-12 strains, and pathogenic strains. *E. coli* strains NOT derived from K-12 must be listed separately from *E. coli* K-12 strains in the Plasmid Vector section of your IBC application (Section 3-1).

Below is a list of some commonly used strains of *E. coli*, and the NIH Guidelines category applicable to those strains.

If you have any questions regarding this information, or if you have questions regarding a strain not listed, please contact IBCstaff@umich.edu.

E. coli K-12 strains and derivatives (Exempt, NIH Guideline III-F-8, Appendix C-II)

You may begin this work upon confirmation of the successful submission of your IBC application that includes this work.

58	Cavalli Hfr	Hfr3000	JM83	Novablue	STBL3	W945
58-161	DH1	Hfr3000 X74	K-12	P678	SURE	WA704
5K	DH5α	HMS 174	KP7600	PA 309	TB1	WG1
679	DH10B	HST08	LE392	REG-12	TG1	XL1-Blue
AB284	DP50	HT115	M15	S17-1	TOP10	XL10-Gold
AB311	EMG2	JC9387	MB408	SCS-110	W1485	XLOLR
AG1	EPI100-T1R	JM101	MC4100	SM10	W208	Y10
C600	H1443	JM109	MG1655	STBL2	W3110	YN2980

Non-K12 E. coli strains, non-pathogenic (Not exempt, NIH Guideline III-E)

You may begin this work upon confirmation of the successful submission of your IBC application that includes this work.

1946	BL21	FDA Seattle 1946	Nissile 1917	TOPP
25922	BL23	HB101	One Shot	W
В	С	K5808	OP50	
B-3	C41	Mach1	REG-811	
B/R	C43	MRE 600	Rosetta	

Pathogenic E. coli strains (Not exempt, NIH Guideline III-D)

IBC approval required before initiating work. BSL2 containment required.

All strains bearing K1 antigen	E. coli enteroinvasive strain (EIEC)		
Diffusely adherent E. coli (DAEC)	E. coli enteropathogenic strain (EPEC)		
E. coli enteroaggregative strain (EAEC)	E. coli enterotoxigenic strain (ETEC)		
E. coli enterhaemorrhagic strain (EHEC)	Shiga toxin producing E. coli (O157:H7)		

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