



DECATHLON



Primary targets for EHEC detection

PROJECT NUMBER: FP7-KBBE-2013-7-613908-Decathlon



Gene <i>eae</i>		
Subtype	Reference strain	Accession number
alpha	E2348/69 (O127:H6)	M58154
beta	RDEC-1 (O15:H-)	AF200363
gamma	EDL933 (O157:H7)	Z11541.1
epsilon	PMK5 (O103:H2)	AF116899
zeta	4795/97 (O84:H4)	AJ271407
eta	CF11201 (O125:H-)	AJ308550
theta	CL37 (O111:H8)	AF449418
iota	7476/96 (O145:H4)	AJ308551
kappa	6044/95 (O118:H5)	AJ308552

Relevant publication

Zhang, W. L., B. Köhler, E. Oswald, L. Beutin, H. Karch, S. Morabito, A. Caprioli, S. Suerbaum, and H. Schmidt. 2002. Genetic diversity of intimin genes of attaching and effacing *Escherichia coli* strains. *J Clin Microbiol* 40:4486-92.

Gene <i>stx</i>			
Type	Subtype	Reference strain	Gene accession number
1	a	EDL933 (O157:H7)	M19473
	c	DG131/3 (O174:H8)	Z36901
	d	MHI813 (O8:K85ab:Hrough)	AY170851
2	a	EDL933 (O157:H7)	X07865
	b	EH250 (O118:H12)	AF043627
	c	E32511/HSC (O157:H-)	L11079
	d	B2F1 (O91:H21)	DQ059012
	e	2771/97 (Ont:H-)	M21534
	f	T4/97 (O128ac:[H2])	AJ010730
	g	7v (O2:H25)	AY286000

Relevant publication

Scheutz, F., L. D. Teel, L. Beutin, D. Piérard, G. Buvens, H. Karch, A. Mellmann, A. Caprioli, R. Tozzoli, S. Morabito, N. A. Strockbine, A. R. Melton-Celsa, M. Sanchez, S. Persson, and A. D. O'Brien. 2012. Multicenter evaluation of a sequence-based protocol for subtyping Shiga toxins and standardizing Stx nomenclature. *J Clin Microbiol* 50:2951-63.

Gene <i>gnd</i>		
Type	Reference strain	Accession number
O157	EDL933 (O157:H7)	AE005174
O26	11368 (O26:H11)	AP010953
O103	12009 (O103:H2)	AP010958
O111	6D (O111:H12)	JN887688
O145	RM12581 (O145:H28)	CP007136
O104	2009EL-2071 (O104:H4)	CP003301
O45	05-6545 (O45:H2)	DQ472574
O121	99-4389 (O121:H-)	DQ472560
O91	85-489 (O91:H21)	DQ472556
O113	98NK2 (O113:H21)	AF172324
O128	O128	AY217096
O146	FHI65 (O146)	LM996528
O55	05-0376 (O55:H7)	DQ472575

Relevant publication

https://www.corefacility.ca/ecoli_typer/index.pl?t=main