

**Table S1.** Non-exhaustive list of publications with characterized O157:H16 strains

Country	Source	n	Pathotype	Achtman MLST	EcMLST	<i>eae</i> (subtype) <sup>a</sup>	<i>bfpA</i> <sup>b</sup>	<i>stx</i>	References
Argentina	Animal (dog)	11	aEPEC	NT	171	+ (ε)	-	-	[23]
	Human	4	aEPEC	NT	NT	+ (ε)	-	-	[30]
	Meat (chorizo)	1	NA	NT	NT	-	NT	-	[24]
China	Animal (duck)	1	NA	1011	NT	-	NT	-	[27,28]
	Animal (fish)	1	NA	1011	NT	-	NT	-	[28]
	Animal (chicken)	1	NA	1011	NT	-	NT	-	[28]
France	Meat	2	aEPEC	10	171	+ (ε)	-	-	[22,23,25]
Germany	Human	14	aEPEC	NT	171	+ (ε)	-	-	[21,23]
	Human	2	aEPEC	NT	171	+ (β)	-	-	[23]
	Human	4	NA	NT	344		NT	-	[23]
	Human	1	NA	NT	83		NT	-	[23]
	Human	1	STEC	NT	NT	+	NT	<i>stx1 stx2</i>	[32]
Norway	Human	2	aEPEC	10	171	+ (ε)	-	-	[20,23]
Sweden	Food (flour)	1	aEPEC	10	NT	+ (ε)	-	-	[29]
The Netherlands	Environmental	9	aEPEC	NT	171	+ (ε)	-	-	[23]
	Environmental	1	NA	NT	344	-	NT	-	[23]
	Human	8	aEPEC	10	NT	+ (ε)	NT	-	[27]
USA	Animal (gazella slender horned)	1	aEPEC	10	NT	+ (β)	-	-	[28]
	Animal (canine intestine)	1	aEPEC	10	NT	+ (β)	-	-	[28]
	Human	1	aEPEC	10	NT	+ (ε)	-	-	[27]
	Human	2	aEPEC	NT	171	+ (β)	-	-	[22,23]
	Human	1	NA	NT	344	-	NT	-	[22,23]
	Human	1	NA	5502	344 v1	-	NT	-	[22,23,27]
	Meat	1	NA	NT	344	-	NT	-	[22,23]
	Meat	1	NA	NT	344 v2	-	NT	-	[22,23]
	Water	6	aEPEC	NT	171	+ (ε)	-	-	[22,23]

NT: not tested; <sup>a</sup> The intimin gene (*eae*) (subtype) highlighted in blue were not tested in the original papers. The prediction of the *eae* (subtype) was performed using VirulenceFinder 2.0 available from the Center for Genomic Epidemiology platform (<https://www.genomicepidemiology.org/services/>); <sup>b</sup> As mentioned in the original papers, strains without *eae* were not tested for *bfpA*.