

Characterization of *Shigella sonnei* Isolate Carrying Shiga Toxin 2–Producing Gene

Technical Appendix

Technical Appendix Table. Characteristics of 2 isolates from a patient compared with those of a *Shigella sonnei* reference strain*

Identification and typing tests	Patient isolate		
	FE109024	FE109046	<i>S. sonnei</i> ATCC 25931
Sorbitol fermentation	–	–	–
Glucose fermentation	±†	±	±
Lactose fermentation	–	–	–
β-galactosidase production	+	+	+
Saccharose fermentation	–	–	–
Mannitol fermentation	–	–	±
Citrate fermentation	–	–	–
Inositol fermentation	–	–	–
Malonate fermentation	–	–	–
Arabinose fermentation	+	+	+
Xylose fermentation	–	–	–
Dulcitol fermentation	–	–	–
Salicine fermentation	–	–	–
Growth on media containing potassium cyanide	–	–	–
Indole production	–	–	–
Urease production	–	–	–
Hydrogen sulfide production	–	–	–
Motility	–	–	–
API 20E test result	<i>Shigella sonnei</i> 89,2%‡	<i>Shigella sonnei</i> 89,2%§	<i>Shigella sonnei</i> 98,3%¶
API 20E code	1104002	1104002	1104102
<i>S. sonnei</i> polyvalent antiserum	+	+	+
<i>S. sonnei</i> phase I antiserum	+	–	±
<i>S. sonnei</i> phase II antiserum	–	+	±
<i>stx</i> ₂	–	+	–
<i>stx</i> ₂ subtype	Not applicable	<i>stx</i> _{2a}	Not applicable
<i>ipaH</i>	+	+	Not done
<i>ial</i>	+	+	Not done
<i>invE</i>	+	–	Not done
<i>eaeA</i>	–	–	Not done
<i>hlyA</i>	–	–	Not done
<i>saa</i>	–	–	Not done

**stx*₂, Shiga toxin 2; *ipaH*, invasion plasmid antigen H; *ial*, invasion-associated locus; *invE*, invasion gene transcription regulator *invE*; *eaeA*, intimin; *hlyA*, enterohemolysin; *saa*, STEC autoagglutinating adhesin. *S. sonnei* ATCC 25931 forms 2 types of colonies: the smooth colony agglutinated by phase I antiserum, and the rough colony agglutinated by phase II antiserum.

†In glucose and mannitol test tubes, production of gas was also observed: ± = ferments carbohydrate, does not produce gas.‡ Test against mannitol 99%, rhamnose 75%.

§Test against mannitol 99%, rhamnose 75%.

¶Test against rhamnose 75%.