

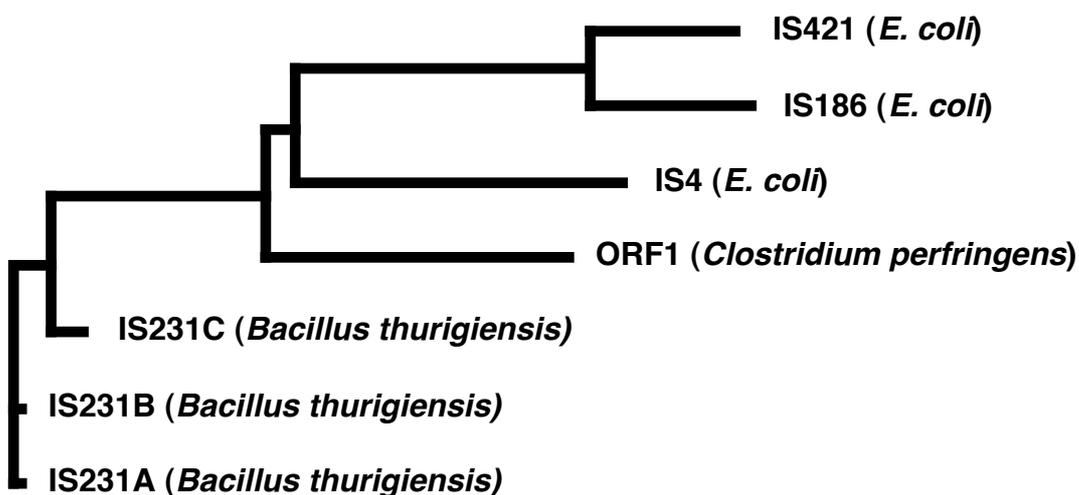
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ORF1-G	CATGGCCGTCAACC <b>TAAGAA</b> G	ORF1-D	CCCATGGCCGTCAACC <b>TAAGAA</b> G
IS231A-G	CATGCCCATCAACT <b>TAAGAA</b>	IS231A-D	CATGCCCATCAACT <b>TAAGAA</b>
IS231B-G	CATGCCCATCAACT <b>TAAGAA</b>	IS231B-D	TTAGCATT <b>TACTTAAGAA</b>
IS231C-G	CATGCCCATCAACT <b>TAAGAA</b>	IS231C-D	CATGCCCATCAACT <b>TAAGAA</b>
IS4-G	TAATGCCGATCAG- <b>TTAAG</b>	IS4-D	TAATGCCAGTCAG- <b>TTAAG</b>

**Figure 2.** Comparison of the left inverted repeated sequences of IS1151, IS231 family and IS4. The identical nucleotides with the IS231A sequence are red.



**Figure 3.** Phylogenetic tree of IS1151, IS231A and IS4 based on the nucleotide sequences homologies of inverted repeats constructed with the ClustalV software.



**Figure 4.** Phylogenetic tree of IS1151, IS231A, IS4, IS186 and IS421 based on the homologies of the open reading frame translated amino acids sequences constructed with the ClustalV software.

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IS421      YRLRWQIELAFKRLKSL
IS186      YRLRWQIELAFKRLKSL
IS4        YSHRWEIELGYREIKQT
Tn5        YTHRWRIEEFHKAWKTG
IS1151     YSLRWQIEIIFKVKWSI
IS231B     YSLRWQIEIIFKTKWKS
IS231C     YSLRWQIEIIFKTKWKS
IS231X     YSLRWQIEIIFKTKWKS
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**Figure 5.** Comparison of the amino-acid sequences between position 339 to 355 of the IS1151 sequence with the homologous sequences of IS231 family, IS4, IS186, IS421 and Tn5.

Toxinotype	Number of studied strains	Positive Hybridization		Negative Hybridization	
		Number	Percentage	Number	Percentage
<b>A non-enterotoxigenic</b>	<b>108</b>	<b>5</b>	<b>5%</b>	<b>103</b>	<b>95%</b>
<b>B non-enterotoxigenic</b>	<b>1</b>	<b>1</b>	<b>100%</b>	<b>0</b>	<b>0%</b>
<b>C non-enterotoxigenic</b>	<b>7</b>	<b>7</b>	<b>100%</b>	<b>0</b>	<b>0%</b>
<b>D non-enterotoxigenic</b>	<b>16</b>	<b>16</b>	<b>100%</b>	<b>0</b>	<b>0%</b>
<b>A enterotoxigenic</b>	<b>8</b>	<b>3</b>	<b>38%</b>	<b>5</b>	<b>63%</b>
<b>D entérotaxigenic</b>	<b>2</b>	<b>2</b>	<b>100%</b>	<b>0</b>	<b>0%</b>
<b>E enterotoxigenic</b>	<b>1</b>	<b>1</b>	<b>100%</b>	<b>0</b>	<b>0%</b>

**Table 1.** DNA-DNA colony hybridization results of 143 *C. perfringens* isolates with the internal (nucleotides 314 to 1303, all contained in the ORF sequence) IS1151 probe.