PCR: Xander (Xdr)

Amplifluor: No

Primers

Nucleotide sequence (5` --> 3`)

Primer	Sequence
Xdr F'	GGAAGATTTACTTTGGCCCAG
Xdr R'WT	ACCCAGATTATTAAATCTGGAGAGGGCA
Xdr R'M	CTTCTTCCTTACATGCAGGACGTCCAGATTATTAAATCTGGAGAGTACT

Reagents

Reagents/Constituents	Commercial name	Stock Concentration	Volume (µL)
DNA Sample			1.0
10x Buffer	10x 0289 PCR Buffer	0.0 mM MgCl2	5.0
dNTPs		10.0 mM	0.5
Primer: **Xdr F'**		10.0 µM	
Primer: **Xdr R'WT**		10.0 µM	
Primer: **Xdr R'M**		10.0 µM	
Water			29.35
Taq Polymerase			0.15
Reagent: 100mM MgCl2			1.75

Comments on protocol: DNA Sample (ear punch).

Final conc. Of 3.5mM MgCl2

Strategy

Steps	Temp (°C)	Time (seconds)
Hot start: **No**		
Initiation/Melting	94.0	120
Denaturation	94.0	20
Annealing	65.0	20
Elongation	72.0	20
Number of cycles (repeat denature, anneal & elgonate): **35**		
Strand completion (i.e. 72°C, 10 min)	72.0	180
Finish (i.e. 4°C, indefinite)	10.0	Hold

Electrophoresis

Running buffer:	
% Agarose:	2.0
Volt:	400.0
Estimated running time (min):	20.0

Bands

Number	Band (bp)	Genotype
1.	190	Wt/Wt
2.	110	Xdr/Xdr