

Salmonella Bredeney

Salmonella Bredeney

Background: *Salmonella enterica* subsp. *enterica* serovar Bredeney (antigenic formula 1,4,12,27:l,v:1,7) is a serovar of the O:4 (B) serogroup. *S. Bredeney* is a rare serovar, in the US, 405 cases were reported in humans between 1999-2009; in addition, 11 isolates were obtained from turkeys in the US during the same period. In Ireland, a different trend was observed, as it was reported as the third most common serovar during the years 1998-2000. Molecular characterization found that these were isolates closely related. In the Netherlands one isolate of *S. Bredeney* was reported to harbor an IncN plasmid carrying the *qnr* genes (quinolone resistance genes).

Animal reservoir: *S. Bredeney* appear to be associated with poultry, at least in Ireland it was associated with poultry; and in the US with turkey.

Geographical distribution: This serovar has been reported only in the US and Europe.

Outbreaks: Despite the fact that this is a rare serovar, three outbreaks have been reported. Recently, *S. Bredeney* was reported in frozen veal from Spain.

Year	Location	Associated source	Number of cases
2012	US: Multistate	Peanut butter	42
1998	US: Alabama	Meat	170
1997	Ireland	Chicken	10

Relevant links and references:

1. <http://aem.asm.org/content/68/1/181.full>
2. <http://www.fda.gov/Food/RecallsOutbreaksEmergencies/Outbreaks/ucm320413.htm>
3. <http://www.cdc.gov/salmonella/bredeney-09-12/>
4. <http://www.ncbi.nlm.nih.gov/pubmed/12850160>
5. <http://jac.oxfordjournals.org/content/64/6/1332.full>