

Salmonella Cubana

Background: *Salmonella enterica* subsp. *enterica* serovar Cubana (antigenic formula 1,13,23:z29:-) is a serovar of the O:13 (G) serogroup. *Salmonella* Cubana was first isolated by Curbelo in Cuba from diseased baby chicks. This serovar is very rare and mainly associated with poultry. Serovar Cubana was found in contaminated chick and pig feed.

Animal reservoir: Serovar Cubana was only found in chicken, and pigs.

Geographical distribution: Serovar Cubana has been found in the U.S., Canada, Cuba, and Sweden.

Outbreaks: Outbreaks have been associated with *S. Cubana*.

Year	Location	Associated Source	Number of Cases
1966	US: CA	Carmine dye capsules	7
1998	US: Multi-state	Alfalfa sprouts	34*
2009	US: Minnesota	Sprouts	2
2009	Canada	Onion sprouts and mixed onion/alfalfa sprout	14
2010	US: Multi-state	Alfalfa sprouts	3
2012	US: Multi-state	Sprouts	19

*: Three serovars (*S. Havana*, *S. Cubana*, *S. Tennessee*) were involved in this outbreak.

Relevant links and references:

1. <https://journals.asm.org/doi/epdf/10.1128/jb.51.1.123-124.1946>
2. <https://www.sciencedirect.com/science/article/pii/S0032579119507593>
3. <https://www.nejm.org/doi/pdf/10.1056/NEJM196704132761507>
4. <https://www.sciencedirect.com/science/article/pii/S0362028X22095679>
5. <https://journals.asm.org/doi/10.1128/genomeA.01112-14>
6. <https://actavetscand.biomedcentral.com/articles/10.1186/1751-0147-47-13>
7. <https://www.foodsafetynews.com/files/2016/02/Sprout-associated-outbreaks-2-24-16-1.pdf>