

Salmonella Mikawasima

Background: *Salmonella enterica* subsp. *enterica* serovar Mikawasima (antigenic formula 6,7,14:y:e,n,z₁₅) is a serovar of the O:7 (C₁) serogroup. While this serovar is very rare and hardly reported among human cases, it has caused two outbreaks (one in [Norway](#) and one in the UK). In the US there are no reports of *S. Mikawasima* in humans and animals in the last 10 years. In Malaysia, *S. Mikawasima* was reported from fish and from [aquaculture](#) systems; the reported strains showed resistant to up to four antibiotics (chloramphenicol, clindamycin, rifampicin, and tetracycline).

Animal reservoir: Reptiles and fish have been reported as a reservoir.

Geographical distribution: *S. Mikawasima* appears to be only present in some countries in Europe and Asia.

Outbreaks: *S. Mikawasima* was associated with two outbreaks, one in Norway and one current outbreak (December, 2013) in the UK.

| Year | Location | Associated source | Number of cases |
|------|---|-------------------|-----------------|
| 2018 | Germany, Sweden, Denmark, Czech Republic, Austria | unknown | 50 |
| 2013 | UK | unknown | 75 |
| 2012 | Norway | unknown | 13 |

Relevant links:

1. <http://www.geostrategicforecasting.com/proahedr-salmonellosis-serotype-mikawashima-2/>
2. http://umexpert.um.edu.my/file/publication/00004462_86509.pdf
3. <http://www.ncbi.nlm.nih.gov/pubmed/13889310>
4. <https://www.foodsafetynews.com/2018/09/rare-salmonella-strain-sickens-50-in-five-eu-countries/>