

Salmonella in Food 2014

Table 1: *Salmonella* spp. in meat

Food Type	Sampling Site	RTE Status	Samples Tested	Samples Positive	% Positive
Fresh Meat					
Convenience Sampling					
Broiler	Processing	NS	1	0	0
	Catering	NS	1	0	0
	Hospital	NS	1	0	0
	Unspecified	NS	1	0	0
Poultry (Including Turkey, Duck and Unspecified Poultry)	Unspecified	NS	1	0	0
Lamb and Mutton	Border control	NS	1	0	0
Total			6	0	0
Carcasses					
Convenience Sampling					
Broiler	Slaughterhouse	NS	215	24	11.2
Duck	Slaughterhouse	NS	12	9	75
Turkey	Slaughterhouse	NS	7	0	0
Spent Hens	Slaughterhouse	NS	17	2	11.8
Total			251	35	13.9
Meat Products					
Convenience Sampling					
Broiler	Processing	RTE	26	0	0
		Raw	6	0	0
	Retail	RTE	260	0	0
		Raw	1	0	0
		NS	10	0	0
	Hospital	RTE	114	0	0
		NS	8	0	0
	Catering	RTE	19	0	0
	Unspecified	RTE	262	0	0
		Raw	1	0	0
		NS	15	0	0
	Beef	Processing	RTE	26	0
Raw			6	0	0
NS			1	0	0
Retail		RTE	140	0	0
		Raw	26	0	0
		NS	3	0	0
Hospital		RTE	74	0	0
		NS	2	0	0
Catering		RTE	6	0	0
Unspecified		RTE	222	0	0
		Raw	13	0	0
		NS	35	0	0
Pork	Processing	RTE	93	0	0
		Raw	27	0	0
	Retail	RTE	156	0	0
		NS	1	0	0

Food Type	Sampling Site	RTE Status	Samples Tested	Samples Positive	% Positive
	Hospital	RTE	69	0	0
		NS	2	0	0
	Catering	RTE	16	0	0
		NS	1	0	0
	Wholesale	RTE	1	0	0
	Unspecified	RTE	212	0	0
NS		13	0	0	
Poultry (Including Turkey, Duck and Unspecified Poultry)	Processing	RTE	18	0	0
	Hospital	RTE	7	0	0
	Retail	RTE	48	0	0
	Border Control	RTE	3	0	0
	Unspecified	RTE	44	0	0
		NS	2	0	0
Lamb and Mutton	Hospital	RTE	9	0	0
	Retail	RTE	9	0	0
		NS	1	0	0
	Processing	RTE	3	0	0
	Catering	RTE	1	0	0
	Unspecified	RTE	13	0	0
Mixed Meat products and Meat from other animals (Including Rabbit and Wild Boar)	Hospital	RTE	4	0	0
	Processing	RTE	10	0	0
		Raw	1	0	0
	Retail	RTE	14	0	0
	Unspecified	RTE	14	0	0
Total			2068	0	0
Suspect Sampling					
Broiler	Catering	RTE	3	0	0
	Hospital	NS	1	0	0
	Retail	RTE	39	0	0
	Unspecified	RTE	29	0	0
		Raw	3	0	0
		NS	2	0	0
Beef	Catering	RTE	1	0	0
	Hospital	RTE	1	0	0
	Retail	RTE	17	0	0
	Unspecified	RTE	15	0	0
		Raw	1	0	0
Pork	Retail	RTE	15	0	0
	Unspecified	RTE	15	0	0
		Raw	1	0	0
Poultry (Turkey)	Retail	RTE	3	0	0
Lamb and Mutton	Retail	RTE	1	0	0
	Unspecified	RTE	3	0	0
Mixed Meat products and Meat from other animals	Retail	RTE	2	0	0
	Unspecified	RTE	1	0	0
Total			153	0	0
Minced Meat					
Convenience Sampling					
Broiler	Unspecified	NS	1	0	0
Beef	Processing	Raw	7	0	0

Food Type	Sampling Site	RTE Status	Samples Tested	Samples Positive	% Positive
	Retail	Raw	5	0	0
		NS	1	0	0
	Unspecified	Raw	1	0	0
		NS	10	0	0
Pork	Unspecified	Raw	1	0	0
Lamb and Mutton	Processing	Raw	1	0	0
	Hospital	Raw	1	0	0
Turkey	Processing	Raw	2	0	0
	Hospital	Raw	1	0	0
Total			31	0	0
Offal					
Convenience Sampling					
Broiler	Retail	NS	4	0	0
	Hospital	NS	1	0	0
	Unspecified	NS	5	0	0
Poultry (Unspecified)	Retail	NS	1	0	0
Duck	Retail	NS	1	0	0
	Unspecified	NS	1	0	0
Pig	Unspecified	NS	1	0	0
Total			14	0	0
Suspect Sampling					
Pig	Unspecified	NS	1	0	0
Total			1	0	0
Meat Preparations					
Convenience Sampling					
Broiler	Catering	Raw	4	0	0
	Hospital	Raw	1	0	0
	Processing	Raw	8	0	0
	Unspecified	Raw	6	0	0
Beef	Retail	Raw	2	0	0
	Processing	Raw	7	0	0
	Unspecified	Raw	2	0	0
Pork	Hospital	Raw	1	0	0
		Processing	Raw	47	2
	Retail	Raw	6	0	0
		NS	1	0	0
	Unspecified	Raw	2	0	0
		NS	8	0	0
Poultry (Including Turkey, Geese, Duck and Unspecified Poultry)	Border Control	Raw	10	0	0
Lamb and Mutton	Processing	Raw	1	0	0
	Unspecified	Raw	5	0	0
Total			111	2	1.8
Suspect Sampling					
Broiler	Unspecified	Raw	1	0	0
Pig	Retail	Raw	1	0	0
Total			2	0	0
			Samples	Samples	%

Food Type	Sampling Site	RTE Status	Samples Tested	Samples Positive	% Positive
			Tested	Positive	Positive
Overall Total			2637	37	1.4
Total Convenience Samples			2481	37	1.5
<i>Consisting of:</i>					
Total NS			386	35	9.1
Total RTE			1893	0	0
Total Raw			202	2	1.0
Total Suspect Samples			156	0	0
<i>Consisting of:</i>					
Total NS			4	0	0
Total RTE			145	0	0
Total Raw			7	0	0

Abbreviations - RTE: Ready-to-Eat, **NS:** Not Specified, **MS:** Mechanically Separated

Data Source: Central Veterinary Research Laboratory (CVRL), Public Health Laboratory, Cherry Orchard Hospital (PHL), Veterinary Public Health Research Laboratory (VPHRL)

Table 2: *Salmonella* spp. in other foods

Food Type	Sampling Site	RTE Status	Samples Tested	Samples Positive	% Positive
Foods of animal origin					
Convenience Sampling					
Cheese (from cows milk)	Hospital	RTE	1	0	0
		NS	1	0	0
	Processing	RTE	1	0	0
		Raw	8	0	0
		NS	15	0	0
	Retail	RTE	2	0	0
		Raw	1	0	0
		NS	12	0	0
	Unspecified	RTE	1	0	0
		Raw	1	0	0
		NS	12	0	0
	Cheese (from sheep, goat and unspecified milk source)	Hospital	NS	1	0
Processing		NS	25	0	0
		Raw	77	0	0
Retail		RTE	4	0	0
		NS	21	0	0
Unspecified		RTE	2	0	0
		NS	13	0	0
Wholesale		RTE	1	0	0
Dairy Products (unspecified dairy products, includes raw or low heat-treated milk)	Retail	Raw	1	0	0
		NS	23	0	0
	Hospital	NS	8	0	0
	Processing	Raw	1	0	0
		NS	247	0	0
	Border Control	NS	1	0	0
	Unspecified	Raw	2	0	0
		NS	49	0	0
Dairy Products (from pasteurised milk)	Hospital	RTE	3	0	0
	Processing	RTE	4	0	0
	Retail	RTE	26	0	0
	Unspecified	RTE	5	0	0
Infant Formula	Retail	NS	2	0	0
	Processing	NS	118	0	0
	Unspecified	NS	11	0	0
Eggs and Egg Products	Retail	NS	75	0	0
	Hospital	NS	31	0	0
	Processing	NS	3	0	0
	Catering	NS	9	0	0
	Unspecified	NS	75	0	0
Fish and Fishery Products	Retail	RTE	23	0	0
		Raw	1	0	0
		NS	25	0	0
	Hospital	RTE	4	0	0
		NS	61	0	0
	Processing	RTE	2	0	0
NS		9	0	0	

Food Type	Sampling Site	RTE Status	Samples Tested	Samples Positive	% Positive	
	Catering	NS	9	0	0	
	Unspecified	RTE	21	0	0	
		Raw	15	0	0	
		NS	121	0	0	
Crustaceans	Processing	NS	3	0	0	
	Retail	NS	3	0	0	
	Unspecified	NS	23	0	0	
Live Bivalve Molluscs	Processing	NS	9	0	0	
	Unspecified	NS	11	0	0	
			Total	1233	0	0
Suspect Sampling						
Cheese (from cows milk)	Retail	Raw	1	0	0	
		NS	1	0	0	
	Unspecified	NS	3	0	0	
Cheese (from sheep, goat and unspecified milk)	Retail	NS	1	0	0	
	Unspecified	NS	6	0	0	
Dairy Products (unspecified dairy products, includes raw or low heat-treated milk)	Retail	NS	1	0	0	
	Unspecified	NS	4	0	0	
Dairy Products (from pasteurised milk)	Retail	NS	1	0	0	
Milk	Unspecified	Raw	1	0	0	
		NS	2	0	0	
Infant Formula	Unspecified	NS	2	0	0	
Eggs and Egg Products	Catering	RTE	1	0	0	
	Processing	NS	1	0	0	
	Retail	NS	3	0	0	
	Unspecified	NS	2	0	0	
Fish and Fishery Products	Retail	RTE	1	0	0	
		NS	6	0	0	
	Unspecified	Raw	1	0	0	
		NS	2	0	0	
Crustaceans	Retail	NS	4	0	0	
	Unspecified	Raw	1	0	0	
Live Bivalve Molluscs	Unspecified	NS	1	0	0	
			Total	46	0	0
Other foods						
Convenience Sampling						
Bakery Products	Retail	NS	494	0	0	
	Processing	NS	54	0	0	
	Catering	NS	3	0	0	
	Hospital	NS	50	0	0	
	Unspecified	NS	558	0	0	
Beverages and Alcohol	Processing	NS	1	0	0	
	Unspecified	NS	6	0	0	
Cereals and Meals	Catering	NS	2	0	0	
	Hospital	NS	18	0	0	
	Processing	NS	2	0	0	
	Retail	NS	31	0	0	
	Unspecified	NS	51	0	0	
Confectionary Products and Pastes	Processing	NS	5	0	0	

Food Type	Sampling Site	RTE Status	Samples Tested	Samples Positive	% Positive
	Unspecified	NS	3	0	0
Chocolate (Including Cocoa and Cocoa Preparations)	Processing	NS	2	0	0
	Unspecified	NS	2	0	0
Foodstuffs for Nutritional Uses	Processing	NS	6	0	0
	Unspecified	NS	1	0	0
Fruits and Vegetables	Retail	NS	14	0	0
	Boarder Inspection	RTE	1	0	0
		NS	1	0	0
	Hospital	NS	3	0	0
	Processing	NS	11	0	0
	Catering	NS	1	0	0
	Unspecified	RTE	23	0	0
Juice	Retail	NS	2	0	0
	Processing	NS	2	0	0
	Hospital	NS	1	0	0
	Unspecified	NS	6	0	0
Mushrooms	Processing	NS	9	0	0
Nuts and Nut Products	Unspecified	NS	6	0	0
Potato Chips	Unspecified	NS	2	0	0
RTE Salads	Catering	RTE	10	0	0
	Hospital	RTE	56	0	0
	Processing	RTE	20	0	0
	Retail	RTE	296	0	0
	Unspecified	RTE	358	0	0
Sauce and Dressings	Hospital	NS	9	0	0
	Processing	NS	4	0	0
	Retail	NS	56	0	0
	Catering	NS	4	0	0
	Unspecified	NS	51	0	0
Soups	Retail	RTE	7	0	0
	Hospital	RTE	8	0	0
	Unspecified	NS	9	0	0
Spices and Herbs	Processing	NS	6	0	0
	Unspecified	NS	13	0	0
Water	Processing	NS	1	0	0
	Retail	NS	2	0	0
	Unspecified	NS	11	0	0
Other Foods and Processed Foods	Hospital	RTE	18	0	0
		NS	16	0	0
	Processing	RTE	3	0	0
		NS	34	0	0
	Retail	RTE	48	0	0
		NS	69	0	0
	Wholesale	NS	1	0	0
		Catering	RTE	2	0
	Unspecified	NS	7	0	0
		RTE	69	0	0
		RTE	69	0	0
		NS	169	0	0
Total			2728	0	0
Suspect Sampling					

Food Type	Sampling Site	RTE Status	Samples Tested	Samples Positive	% Positive
Bakery Products	Retail	NS	8	0	0
	Unspecified	NS	7	0	0
Cereals and Meals	Retail	NS	2	0	0
	Unspecified	NS	6	0	0
Confectionary Products and Pastes	Retail	NS	1	0	0
	Unspecified	NS	1	0	0
Chocolate (Including Cocoa and Cocoa Preparations)	Unspecified	NS	1	0	0
Foodstuffs for Nutritional Uses	Unspecified	RTE	1	0	0
Fruits and Vegetables	Retail	NS	11	0	0
	Hospital	NS	1	0	0
	Unspecified	NS	7	0	0
Juice	Retail	NS	2	0	0
	Unspecified	NS	1	0	0
Mushrooms	Unspecified	NS	1	0	0
Potato Chips	Unspecified	NS	1	0	0
RTE Salads	Catering	RTE	1	0	0
	Hospital	RTE	1	0	0
	Retail	RTE	6	0	0
	Unspecified	RTE	11	0	0
Sauce and Dressings	Hospital	NS	2	0	0
	Retail	NS	11	0	0
	Unspecified	NS	7	0	0
Soups	Retail	RTE	1	0	0
Total			91	0	0
			Samples Tested	Samples Positive	% Positive
Overall Total			4098	0	0
Total Convenience Samples			3961	0	0
<i>Consisting of:</i>					
Total NS			2835	0	0
Total RTE			1019	0	0
Total Raw			107	0	0
Total Suspect Samples			137	0	0
<i>Consisting of:</i>					
Total NS			110	0	0
Total RTE			23	0	0
Total Raw			4	0	0

Abbreviations - RTE: Ready-to-Eat, **NS:** Not-Specified

Data Source: Dairy Science Laboratory (DSL), Public Health Laboratory, Cherry Orchard Hospital (PHL), Sea Fisheries Protection Agency (SFPA), Veterinary Public Health Research Laboratory (VPHRL)

Table 3: *Salmonella* serotypes in meat and other foods

Food sample	Number of positive samples	<i>Salmonella</i> serotypes	Number of isolates
Convenience Sampling			
Broiler	24	<i>S. Bredney</i> <i>S. Kentucky</i> <i>S. Schwarzengrund</i> <i>S. Amager</i> <i>S. Typhimurium</i> <i>Salmonella</i> spp.	14 2 1 4 1 2
Duck	9	<i>S. Brandenburg</i> <i>S. Kentucky</i> <i>S. Agona</i> <i>S. Infantis</i>	3 3 1 2
Spent Hens	2	<i>S. Mbandaka</i>	2
Pig	2	<i>Salmonella</i> spp.	2
Total	37	<i>S. Mbandaka</i> <i>S. Bredney</i> <i>S. Kentucky</i> <i>S. Schwarzengrund</i> <i>S. Amager</i> <i>S. Typhimurium</i> <i>S. Brandenburg</i> <i>S. Agona</i> <i>S. Infantis</i> <i>Salmonella</i> spp.	2 14 5 1 4 1 3 1 2 4

Data Source: Central Veterinary Research Laboratory (CVRL)