

# Microbiological Hazards in Dry Dog Chews and Feeds

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**Table S1.** RASFF notifications on pathogenic microorganisms in pet foods products in 2017 to 2020.

No.   Copyright: © 2021 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license ( <a href="http://creativecommons.org/licenses/by/4.0/">http://creativecommons.org/licenses/by/4.0/</a> ).	Notification type	Notifying country	Product categories	Microorganism	Countries concerned by the notification [Origin country]	Risk decision
1.	alert	Germany	dog chews	<i>Salmonella</i>	Poland	serious
2.	alert	Germany	dog chews	<i>Salmonella enterica</i> ser. Derby	Germany	undecided
3.	information	Sweden	dog chews	<i>Salmonella</i>	India	serious
4.	information	Italy	pet food	<i>Salmonella enterica</i> ser. Ohio	Spain	not serious
5.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Rissen, <i>Salmonella enterica</i> ser. Typhimurium	Germany	serious
6.	information	Czech Republic	lamb meal	<i>Salmonella enterica</i> ser. Bovismorbificans, <i>Salmonella enterica</i> ser. Mishmarhaemek	United Kingdom	not serious
7.	alert	United Kingdom	frozen minced beef for dogs	<i>Salmonella enterica</i> ser. Paratyphi B (variant Java)	United Kingdom	serious
8.	information	Croatia	frozen pet food	<i>Salmonella</i>	United Kingdom	not serious

9.	information	Italy	processed animal proteins	<i>Salmonella</i>	Spain	not serious
10.	border rejection	Germany	dog chews	<i>Salmonella</i>	Brazil	serious
11.	border rejection	Germany	dog chews (dried tripes)	<i>Salmonella enterica</i> ser. Newport, <i>Salmonella enterica</i> ser. Typhimurium	India	serious
12.	alert	Germany	dog chews	<i>Salmonella</i>	Poland	serious
13.	alert	Belgium	raw petfood	<i>Salmonella enterica</i> ser. Typhimurium, <i>Enterobacteriaceae</i>	Netherlands	serious
14.	information	Poland	dog chews (dried boar ears)	<i>Salmonella</i>	Poland	serious
15.	alert	Norway	frozen raw pet food	<i>Salmonella enterica</i> ser. Derby	United Kingdom	serious
16.	information	Belgium	frozen raw pet food	<i>Salmonella enterica</i> ser. Onderstepoort, <i>Enterobacteriaceae</i>	Netherlands	not serious
17.	information	Poland	pet food	<i>Salmonella</i>	Poland	not serious
18.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Johannesburg	Germany	serious
19.	alert	Slovenia	frozen raw pet food	<i>Salmonella enterica</i> ser. Agona, <i>Salmonella enterica</i> ser. Derby	Netherlands	serious
20.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Infantis, <i>Enterobacteriaceae</i>	Germany	serious
21.	information	Croatia	frozen sausages for dogs	<i>Salmonella</i>	Croatia	not serious
22.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Infantis	Poland	serious
23.	alert	Germany	dog chews	<i>Salmonella</i>	Netherlands	serious
24.	information	Netherlands	pet food	<i>Salmonella enterica</i> ser. Gaminara	Thailand	not serious
25.	alert	Austria	chewing sticks	<i>Salmonella enterica</i> ser. Brandenburg, <i>Salmonella enterica</i>	Poland	serious

				ser. London, <i>Salmonella enterica</i> ser. Rissen, <i>Salmonella enterica</i> ser. Typhimurium monophasic		
26.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Derby	Poland	serious
27.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Livingstone	Switzerland	serious
28.	alert	Italy	dog chews	<i>Salmonella enterica</i> ser. Mapo	Poland	serious
29.	alert	Italy	dog chews	<i>Salmonella enterica</i> ser. Derby	Poland	serious
30.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Mbandaka, <i>Salmonella enterica</i> ser. Typhimurium monophasic	Switzerland	serious
31.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Indiana	Poland	serious
32.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. anatum	Poland	serious
33.	information	Germany	raw pet food	<i>Salmonella</i>	Germany	undecided
34.	alert	Norway	frozen raw petfood	<i>Salmonella enterica</i> ser. Typhimurium	United Kingdom	serious
35.	alert	Belgium	dog chews	<i>Salmonella enterica</i> ser. Brandenburg, <i>Salmonella enterica</i> ser. Idikan, <i>Enterobacteriaceae</i>	Netherlands	serious
36.	information	Sweden	pet food	<i>Salmonella enterica</i> ser. Derby, <i>Salmonella enterica</i> ser. Dublin, <i>Salmonella enterica</i> ser. Typhimurium	Germany	not serious
37.	border rejection	Germany	dog chews	<i>Salmonella</i> , <i>Enterobacteriaceae</i>	Turkey	serious
38.	information	Belgium	raw petfood	<i>Salmonella</i> , <i>Enterobacteriaceae</i>	Netherlands	not serious

39.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Agona	Turkey	serious
40.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Derby, <i>Salmonella enterica</i> ser. Typhimurium monophasic	Belgium	serious
41.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Hessarek	Germany	serious
42.	alert	Austria	dried pig ears	<i>Salmonella enterica</i> ser. Derby, <i>Salmonella enterica</i> ser. Livingstone	Germany	serious
43.	information	Germany	dog chews	<i>Salmonella</i>	France	serious
44.	alert	Austria	dried chicken feet	<i>Salmonella enterica</i> ser. Münster	Poland	serious
45.	alert	Austria	chicken feet	<i>Salmonella enterica</i> ser. Gold Coast, <i>Enterobacteriaceae</i>	Poland	serious
46.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Indiana, <i>Enterobacteriaceae</i>	Poland	serious
47.	border rejection	Germany	dog chew (lamb ears)	<i>Salmonella</i>	Turkey	serious
48.	alert	Austria	dog chews (bovine scalp and throat)	<i>Salmonella enterica</i> ser. Infantis	Slovakia	serious
49.	information	Belgium	frozen raw dog food	<i>Salmonella enterica</i> ser. Indiana, <i>Enterobacteriaceae</i>	Netherlands	not serious
50.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Derby, <i>Salmonella enterica</i> ser. Typhimurium monophasic	Poland	serious
51.	information	Poland	dog chews	<i>Salmonella</i>	Turkey	serious
52.	border rejection	Germany	dog food	<i>Salmonella enterica</i> ser. anatum	Mexico	serious
53.	information	Belgium	frozen dog food	<i>Salmonella</i> , <i>Enterobacteriaceae</i>	Netherlands	not serious

54.	alert	Germany	dog chews	<i>Salmonella</i>	India	serious
55.	alert	Germany	dog chews	<i>Salmonella</i> , <i>Enterobacteriaceae</i>	Turkey	serious
56.	information	Belgium	raw dog food	<i>Salmonella enterica</i> ser. Derby, <i>Salmonella enterica</i> ser. Mbandaka, <i>Enterobacteriaceae</i>	Netherlands	not serious
57.	alert	Germany	dog chews	<i>Salmonella</i>	Poland	serious
58.	alert	Sweden	dog chews	<i>Salmonella enterica</i> ser. Senftenberg	Poland	serious
59.	alert	Belgium	dog chews from camel and horse	<i>Salmonella</i> group E1	Poland	serious
60.	alert	Italy	dried cow's liver	<i>Salmonella</i>	Italy	serious
61.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Derby	Poland	serious
62.	border rejection	Netherlands	dog chews	<i>Salmonella</i>	Thailand	serious
63.	border rejection	Netherlands	dog chews	<i>Salmonella</i>	Thailand	serious
64.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Infantis	Netherlands	serious
65.	alert	Lithuania	dog chews	<i>Salmonella enterica</i> ser. Derby, <i>Salmonella enterica</i> ser. Enteritidis, <i>Salmonella enterica</i> ser. London	Belarus	serious
66.	alert	Austria	dog chews	<i>Salmonella enterica</i> ser. Derby, <i>Salmonella</i> <i>enterica</i> ser. Livingstone, <i>Salmonella enterica</i> ser. London	Germany	serious

Source: own study on the basis of [82]