

Table 1. Persistence of foreign animal disease viruses in animal carcasses

Virus	Persistence (Days at 4 C)	Tissue	Reference
FMD	120	Lymph nodes	Cottral (7)
SVD	330	Skeletal muscle	Dawe (12)
ASF	110	Skeletal muscle	Kowalenko (13)
RP	30	Skeletal muscle	Gillespie et al (14)
HC	33	Skin	Anon (15)

Table -2. Survival of Foreign animal diseases viruses in products prepared from infected carcasses

Virus	Product	Processing condition	Effectiveness of processing	References
FMD	Infected Lymph nodes in ground beef	Retort cooking to 68, 3 C	+	Heidel & Graves (16)
FMD	Ground beef	Cooked in nylon tubes to 63 C 79,4 C	- +	Personal (JHB) experiences
FMD	Meatballs	Cooked in nylon tubes to 93,3 C	+	Blackwell et al (18)
SVD	Salami sausage	Fermentation and curing	-	McKercher et al (26)
ASF	Ham	Brining retort cooking to 69 C	- +	McKercher et al (17) McKercher et al (17)
HC	Ham	Brining , curing 84 days, retort cooking to 69 C	- +	Steward et al (36) McKercher et al (17)

Note: + = Virus not detected after processing; - = Virus detected after processing;

Table-3. Survival of FMD virus in dairy products prepared from milk of infected cows

Product	Processing condition	Effect of processing on virus	References
Whole milk	110C/30 sec 148 C/2 sec	- +	deLeuwe & Van Bekkum (33) Cunlife et al (21)
Cream	93C/15 sec	-	Blackwell et al (19)
Cultured Butter	93C/15 sec Fermentation	- minimum of 4 months	Blackwell (22)
Casein	72 C/0,25 min Isoelectric precipitation, pH 4,6	- 42 days at 25 C	Cunlife and Blackwell (23)
Cheese	No heat	- 90 days - + 120 days curing	Blackwell (24)
Cheddar	63 CD/10sec 67 C/15 sec	- processing but not 30 days curing	
camembert	72 C/15 sec	- 35 days + 30 days curring	
Mozzarella	72 C/15 sec	+ processing alone	
Whey acid	72 C/15 sec, pH 4,6	+ processing alone	Blackwell (25)
Whey sweet	72 C/15 sec, pH 5,2	-	Blackwell (25)

- = Virus survived processing conditions; + = Virus inactivated by processing condition

Table 4. FMD

Virus	Persistence (Days at 4 C)	Tissue	Reference
FMD	2 120	Skeletal muscle Lymph nodes, Coagulated blood. Bone marrow	Cottral et al. 1969