

Republic of the Philippines DEPARTMENT OF AGRICULTURE NATIONAL MEAT INSPECTION SER

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SUBJECT

GUIDELINES ON THE ASSESSMENT OF MICROBIOLOGICAL QUALITY OF FRESH, CHILLED AND FROZEN MEAT

This guideline is being circulated for the information of all concerned particularly our meat laboratories and all other interested parties. The prescribed limits with reference to several international standards shall serve as guidelines for the assessment of microbiological quality of fresh, chilled and frozen meat both locally produced and imported.

Microbiological Limits for Assessment of Microbiological Quality of Fresh, Chilled & Frozen Meat

Product	Parameter	Case	Plan Class	Limits		Sampling Plan		References ¹
				m	M	n	С	3
Fresh Meat / Offals	Total Plate Count	1	3	10 ⁵ cfu/g	10 ⁶ cfu/g*	5	3	1,2
	Salmonella spp	10	2	must be absent in 25 g sample	ND**	5	0	1,2,3
Chilled Meat / Offals	Total Plate Count	1	3	10 ⁶ cfu/g	10 ⁷ cfu/g	5	3	1,4
	Salmonella spp	10	2	must be absent in 25 g sample	ND	5	0	1,2,3
Frozen Meat / Offals	Total Plate Count	1	3	10 ⁵ cfu/g	10 ⁷ cfu/g	5	3	1,4
	Salmonella spp	10	2	must be absent in 25 g sample	ND	5	0	1,2,4
Chilled / Frozen	Total Plate Count	1	3	10 ⁶ cfu/g	10 ⁷ cfu/g	5	3	1,3,4
Comminuted Meat / Offals	Salmonella spp	10	2	must be absent in 25 g sample	ND	5	0	1,2,4
	E.coli count***	4	3	100 MPN/g	500 MPN/g	5	3	3,4

^{*} For fresh poultry: $m = 5x10^5$ cfu/g and $M = 10^7$ cfu/g

¹List of References



^{**} ND - No Data Available

^{***} If positive for E. coli proceed with identifying the strain. If identified as E.coli 0157:H7, consider Case 13 by switching to 2-plan class where n=15, and c=0

^{1.} International Commission on Microbiological Specifications for Foods(ICMSF) Microorganisms in Foods 2:Sampling for Microbiological Analysis: Principle (1986)

^{2.} USDA (2005) and USDA/FSIS (2008a)

^{3.} Commission Regulation European Parliament and Council (EU) (2005)

^{4.} Agri-Food and Veterinary Authority of Singapore (AVAS). (2005).