

# 3M™ Petrifilm™ Plate Certificates, Recognitions and Validations

3M Food Safety is certified to ISO-9001 for design and manufacturing

## International Recognition

### ❖ AFNOR

All foods	Aerobic Count Plates	NF Validation Certificate Number 3M 01/1-09/89 (as compared to ISO 4833 method)
All foods (except raw shellfish)	Coliform Count Plates 24 hour total coliform result	NF Validation Certificate Number 3M 01/2-09/89A (as compared to ISO 4832 VRBL method)
		NF Validation Certificate Number 3M 01/2-09/89B (as compared to ISO 4831 MPN method)
All foods	Coliform Count Plates 24 hour thermotolerant coliform result	NF Validation Certificate Number 3M 01/2-09/89C (as compared to V08-060 VRBL at 44°C method)
	Select E. coli Count Plates	NF Validation Certificate Number 3M 01/8-06/01 (as compared to ISO 16649-2 <i>E. coli</i> method)
	Rapid Coliform Count Plates 14 hour result (Incubate at 30°C for processed pork products)	NF Validation Certificate Number 3M 01/5-03/97A (as compared to ISO 4832 VRBL 30°C method)
	Rapid Coliform Count Plates 24 hour result (Incubate at 30°C for processed pork products)	NF Validation Certificate Number 3M 01/5-03/97B (as compared to ISO 4832 VRBL 30°C method)
All foods (except processed pork products)	Rapid Coliform Count Plates 24 hour result (Incubate at 30°C for seafood products)	NF Validation Certificate Number 3M 01/5-03/97C (as compared to ISO 4831 MPN method)
All foods	Enterobacteriaceae Count Plates	NF Validation Certificate Number 3M 01/6-09/97 (as compared to ISO 21528 part 2 VRBG method)
	High-Sensitivity Coliform Count Plates	NF Validation Certificate Number 3M 01/7-03/99 (as compared to ISO 4831 MPN method)
	Staph Express Count System	NF Validation Certificate Number 3M 01/9-04/03 (as compared to EN ISO 6888-1 method)

### ❖ AOAC® INTERNATIONAL Official Method of Analysis<sup>SM</sup>

Raw and pasteurized milk	Aerobic Count, Coliform Count Plates	Method 986.33
Dairy products	Aerobic Count, Coliform Count Plates	Method 989.10
	High-Sensitivity Coliform Count Plates	Method 996.02
Foods	Aerobic Count Plates	Method 990.12
	Coliform Count, E. coli/Coliform Count Plates	Method 991.14
	Yeast and Mold Count Plates	Method 997.02
	Rapid Coliform Count Plates	Method 2000.15
Poultry, meats and seafood	E. coli/Coliform Count Plates	Method 998.08
Selected foods	Rapid S. aureus Count System	Method 2001.05
	Enterobacteriaceae Count Plates	Method 2003.01
Selected processed and prepared foods	Staph Express Count System	Method 2003.07
Selected dairy foods	Staph Express Count System	Method 2003.08
Selected poultry, meats and seafood	Staph Express Count System	Method 2003.11



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## International Recognition *(cont.)*

### ❖ AOAC® INTERNATIONAL Research Institute<sup>SM</sup>

Environmental sampling	Petrifilm Environmental Listeria Plate	Certificate Number 030601
Bottled water	Petrifilm Aqua Coliform Count Plate	Certificate Number 091101
<i>Salmonella</i>	Petrifilm Salmonella Express System	Certificate Number 061301
Yeast and Mold	Petrifilm Rapid Yeast and Mold Count Plate	Certificate Number 121301

### ❖ INTERNATIONAL DAIRY FEDERATION (FIL/IDF)

Dairy products	Bulletins 285/1993 and 350/2000
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## Recognition by Country

### ❖ Australia

Department of Agriculture and Fisheries — Australian Quarantine and Inspection Services (AQIS)		
ESAM (Carcass sampling)	Aerobic Count Plates	Section 4
Meat and meat products methods	E. coli/Coliform Count Plates	Microbiological Methods for Meat Products for Export
Victorian Dairy Industry Authority (VDIA)		
Milk and dairy products	Aerobic Count Plates	Certificate Number 9503
	Coliform Count Plates	Certificate Number 9504

### ❖ Belgium

All foods	Aerobic Count Plates, Yeast and Mold Count Plates, Staph Express Count System, Select E. coli Count Plates, Enterobacteriaceae Count Plates, Coliform Count Plates, High Sensitivity Coliform Count Plates, Rapid Coliform Count Plates	List of approved microbiological methods — Version 16, December, 2013
Drinking water except chlorinated water	Aqua Coliform Count Plates	

### ❖ Brazil

Ministry of Agriculture		
Carcass sampling	E. coli/Coliform Count Plates	IN 40, 2005

### ❖ Canada

Health Protection Branch, Compendium of Analytical Methods		
Laboratory procedures	Aerobic Count Plates, Coliform Count Plates, E. coli/Coliform Count Plates, Yeast and Mold Count Plates	Method MFLP-41
Environmental sampling	High-Sensitivity Coliform Count Plates	Method MFLP-41B
	Environmental Listeria Plates	Method MFLP-11
Dairy products	High-Sensitivity Coliform Count Plates	Method MFLP-85
Food products and environmental sampling	Staph Express Count System	Method MFLP-21
Health Protection Branch Methods		
Food products and ingredients	Aerobic Count Plates	Method MFHPB-33
	Coliform Count Plates	Method MFHPB-35
	E. coli/Coliform Count Plates	Method MFHPB-34
	Yeast and Mold Count Plates	Method MFHPB-32

### ❖ Chile

SAG (Chile Department of Agriculture)		
Carcass sampling	E. coli/Coliform Count Plates	January 2004

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## Recognition by Country *(cont.)*

### ❖ Colombia

IMVIMA		
	Aerobic Count Plates	Certificate No. 2006021775
	Coliform Count Plates	Certificate No. 2006021761
	E. coli/Coliform Count Plates	Certificate No. 2006021644
	Enterobacteriaceae Count Plates	Certificate No. 2006021776
	Staph Express Count System	Certificate No. 2006021784
	Yeast and Mold Count Plates	Certificate No. 2006021773

### ❖ El Salvador

Ministry of Public Health and Social Attendance Central Control Laboratory of Foods and Waters		
Use in foods	Aerobic Count Plates, Coliform Count Plates, E. coli/Coliform Count Plates, Enterobacteriaceae Count Plates, Staph Express Count Plate System, Yeast and Mold Count Plates	July 2006

### ❖ France

AFNOR Certification (see International Validations)		
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### ❖ Germany

DIN (Deutsches Institut für Normung) Fachbericht 81 Petrifilm Technik		
Foods	Aerobic Count Plates	DIN EN ISO 4833:2003-06
	Coliform Count Plates	ISO 4832:2006
	E. coli/Coliform Count Plates	ISO 4831:2006
	Select E. coli Plates	DIN ISO 16649-2
	Staph Express Count System	DIN EN ISO 6888-12:2003-12
	Enterobacteriaceae Count Plates	DIN ISO 21528-2:2004

### ❖ Japan

Food Hygiene Manual		
Foods	Aerobic Count Plates, Coliform Count Plates, E. coli/Coliform Count Plates, Rapid Coliform Count Plates, Staph Express Count System	July 2004
Ministry of Health, Labour and Welfare		
Carcass (cattle and swine) swab	E. coli/Coliform Count Plates	Notification No. 25

### ❖ Korea

KCFR (Korea Code of Federal Regulatory) KFDA2004		
All foods	Aerobic Count Plates	Method 7.8.2.2
	Coliform Count Plates	Method 7.8.5.4
	E. coli/Coliform Count Plates	Method 7.8.6.3

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## Recognition by Country *(cont.)*

### ❖ Mexico

Milk and dairy products	Aerobic Count Plates, Coliform Count Plates, E. coli/Coliform Count Plates, Staph Express Count Systems, Yeast and Mold Count Plates	NMX-F-717-COFOCA-LEC-2006
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### ❖ New Zealand

AgResearch — Mirinz Meat Industry Microbiological Methods, Edition Four, March 2005		
Meat products	Aerobic Count Plates	Chapter 6 — Section 6.8
	Staph Express Count System (for use with selected foods)	Chapter 7 — Section 7.8.5
	Enterobacteriaceae Count Plates	Chapter 8 — Section 8.2.5
	E. coli/Coliform Count Plates	Chapter 8 — Section 8.4.5
New Zealand Food Safety Authority		
Dairy produce and products	Aerobic Count Plates, Coliform Count Plates, E. coli/Coliform Count Plates, Staph Express Count System, Yeast and Mold Count Plates	Approved Methods Lists
National Microbiological Database (farmed animals)	Aerobic Count Plates	Chapter 4 — 4.7.3
	E. coli/Coliform Count Plates	Chapter 4 — 4.8

### ❖ Nordic Countries

NordVal Validation		
All foods	E. coli/Coliform Count Plates	Ref. No. 2005-30-5408-00045
	Yeast and Mold Count Plates	Ref. No. 2005-30-5408-00046

### ❖ Poland

PKN (Polish Normalisation Committee)		
Raw milk and dairy products	3M™ Petrifilm™ Plates may be used as a method for: Enumeration of total aerobic microorganisms, Enumeration of coliform microorganisms, Enumeration of Escherichia coli microorganisms, Enumeration of yeast and mold	Commission No. 35 July 1, 1999

### ❖ Republic of South Africa

Milk and dairy products	Aerobic Count Plates, Coliform Count Plates, E. coli/Coliform Count Plates	Government Gazette, No. R. 1555.21 of 21, November 1997
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### ❖ United Kingdom

Campden Food and Drink Research Association and Leatherhead Food Research Association study		
EMMAS assessment 3M™ Petrifilm™ E. coli/Coliform Count Plate — 1998		
EMMAS assessment 3M™ Petrifilm™ Enterobacteriaceae Count Plate — 2003		
CMMAS assessment 3M™ Petrifilm™ Staph Express Count system — 2006		
CMMAS assessment 3M™ Petrifilm™ Yeast and Mould Count Plate — 2006		

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## Recognition by Country *(cont.)*

### ❖ United States

AOAC INTERNATIONAL (see International Recognition) APHA (American Public Health Association)		
Foods	Aerobic Count Plates, Coliform Count Plates, E. coli/Coliform Count Plates, Enterobacteriaceae Count Plates, High-Sensitivity Coliform Count Plates, Lactic Acid Bacteria Method, Rapid Coliform Count Plates, Yeast and Mold Count Plates	Compendium of Methods for the Microbiological Examination of Foods, 4th Edition 2001
Dairy	Aerobic Count Plates, Coliform Count Plates, Enterobacteriaceae Count Plates, E. coli/Coliform Count Plates, High-Sensitivity Coliform Count Plates, Rapid Coliform Count Plates, Yeast and Mold Count Plates	Standard Methods for the Examination of Dairy Products, 17th Edition 2004
USDA (United States Department of Agriculture) Agricultural Marketing Service		
Laboratory Methods and Procedures	Aerobic Count Plates	Dairy Grading Branch DA Instruction
USDA FSIS (Food Safety and Inspection Service)		
Beef, swine, sheep, goats, horses, mules and other equine carcass sampling	E. coli/Coliform Count Plates	(Code of Federal Regulations) 9 CFR Part 310.25
Poultry, ducks, geese and guinea carcass sampling	E. coli/Coliform Count Plates	(Code of Federal Regulations) 9 CFR Part 381.94
Examination of fresh, refrigerated and frozen prepared meat, poultry and pasteurized egg products	Aerobic Count Plates, E. coli/Coliform Count Plates	Microbiology Laboratory Guidebook, Chapter 3.01, Quantitative Analysis of Bacteria in Foods as Sanitary Indicators. January 20, 2011.
US FDA (United States Food and Drug Administration)		
All foods	Aerobic Count Plates, Coliform Count Plates, E. coli/Coliform Count Plates	FDA/BAM (Bacteriological Analytical Manual), 8th Edition Rev. A/1988, Chapter 4, Section VI and Appendix 1, Table 4
Milk	Aerobic Count Plates, Coliform Count Plates, High-Sensitivity Coliform Count Plates	FDA Milk Laboratory Evaluation Form 2400a, Revision 3/01

### ❖ Venezuela

Foods	E. coli/Coliform Count Plates	Covenin 3276-97
Dairy products and foods	Aerobic Count Plates	Covenin 3338-97
Dairy products	High-Sensitivity Coliform Count Plates	Covenin 3339-97

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## Recognition by Country *(cont.)*

### ❖ Vietnam

Vietnam Food Administrator permits 3M™ Petrifilm™ Plates into circulation		
Foods	Aerobic Count Plates	01/2009/YT-CNDK
	Yeast and Mold Count Plates	02/2009/YT-CNDK
	Environmental Listeria Plates	03/2009/YT-CNDK
	E. coli/Coliform Count Plates	04/2009/YT-CNDK
	Rapid Coliform Count Plates	05/2009/YT-CNDK
	Staph Express Count Plates	06/2009/YT-CNDK
	Coliform Count Plates	07/2009/YT-CNDK
	High-Sensitivity Coliform Plates	08/2009/YT-CNDK
	Enterobacteriaceae Count Plates	09/2009/YT-CNDK
Tiêu chuẩn Việt Nam (TCVN) issued by the Vietnam Standard and Quality Institute		
Foods	E. coli/Coliform Count Plates	TCVN 9975:2013 based on AOAC OMA 991.14
	Aerobic Count Plates	TCVN 9977:2013 based on AOAC OMA 990.12
	Enterobacteriaceae Count Plates	TCVN 9980:2013 based on AOAC OMA 2003.01
	Yeast and Mold Count Plates	TCVN 7852:2013 based on AOAC OMA 997.02
Meats and seafood	E. coli Count Plates	TCVN 9976:2013 based on AOAC OMA 998.08
Dairy products	Aerobic Count Plate, Coliform Count Plates	TCVN 9978:2013 based on AOAC OMA 989.10
Milk	Aerobic Count Plate, Coliform Count Plates	TCVN 9979:2013 based on AOAC OMA 986.33

Method approval by private or public organizations (e.g., AOAC INTERNATIONAL or AFNOR) does not guarantee the performance of 3M™ Petrifilm™ Plates for any particular food product or process.

To order 3M Petrifilm plates in the U.S., call **1-800-328-1671** • Latin America/Africa regions, call **52255-5270-0454** • Asia Pacific region, call **65-64548611**



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