

**3M**

Petrifilm™

3M Food Safety

# Certifications, Recognitions and Validations

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

# International Recognition

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

AFNOR Certification		
All human food products <sup>1</sup> , pet food and industrial environmental samples	Aerobic Count Plates	NF VALIDATION Certificate Number 3M 01/1-09/89 <sup>2</sup> (as compared to ISO 4833 method)
Milk powders and dairy products	Rapid Aerobic Count Plates	NF VALIDATION Certificate Number 3M 01/17-11/16 <sup>2</sup> (as compared to ISO 4833-1 method)
All human food products <sup>1</sup> (except raw shellfish), pet food and industrial environmental samples	Coliform Count Plates 24 hour total coliform result	NF VALIDATION Certificate Number 3M 01/2-09/89A <sup>2</sup> (as compared to ISO 4832 VRBL method)
All human food products <sup>1</sup> (except raw shellfish)	Coliform Count Plates 24 hour total coliform result	NF VALIDATION Certificate Number 3M 01/2-09/89B <sup>2</sup> (as compared to ISO 4831 MPN method)
All human food products <sup>1</sup>	Coliform Count Plates 24 hour thermotolerant coliform result	NF VALIDATION Certificate Number 3M 01/2-09/89C <sup>2</sup>
All human food products <sup>1</sup> , pet food and industrial environmental samples	Select <i>E. coli</i> Count Plates	NF VALIDATION Certificate Number 3M 01/8-06/01 <sup>2</sup> (as compared to ISO 16649-2)
All human food products <sup>1</sup>	Rapid Coliform Count Plates 14 hour result (Incubate at 30°C for processed pork products and seafood)	NF VALIDATION Certificate Number 3M 01/5-03/97A <sup>2</sup> (as compared to ISO 4832 VRBL 30°C method)
	Rapid Coliform Count Plates 24 hour result (Incubate at 30°C for processed pork products and seafood)	NF VALIDATION Certificate Number 3M 01/5-03/97B <sup>2</sup> (as compared to ISO 4832 VRBL 30°C method)
All human food products <sup>1</sup> (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 <sup>2</sup> (as compared to ISO 4831 MPN 30°C method)
All human food products <sup>1</sup> , animal feed and industrial environmental samples	<i>Enterobacteriaceae</i> Count Plates	NF VALIDATION Certificate Number 3M 01/6-09/97 <sup>2</sup> (as compared to ISO 21528 part 2 VRBG method)
All human food products <sup>1</sup>	High-Sensitivity Coliform Count Plates	NF VALIDATION Certificate Number 3M 01/7-03/99 <sup>2</sup> (as compared to ISO 4831 MPN method)
All human food products <sup>1</sup> and pet food	Staph Express System	NF VALIDATION Certificate Number 3M 01/9-04/03A <sup>2</sup> (as compared to EN ISO 6888-1 method)
All human food products <sup>1</sup> and pet food	Staph Express System	NF VALIDATION Certificate Number 3M 01/9-04/03B <sup>2</sup> (as compared to EN ISO 6882-2 method)

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

### International Recognition *(cont.)*

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#### AFNOR Certification

All human food products <sup>1</sup> , animal feeding stuffs and product environmental samples	Rapid Yeast and Mold Count Plates	NF VALIDATION Certificate Number 3M 01/13-07/14 <sup>2</sup> (as compared to ISO 21527-1 method and ISO 21527-2 method)
All human food products <sup>1</sup> (excluding yoghurts) and industrial environmental samples	Lactic Acid Bacteria Count Plates	NF VALIDATION Certificate Number 3M 01/19-11/17 <sup>2</sup> (as compared to ISO 15214 method)

<sup>1</sup> Validation study performed on a broad range of foods

<sup>2</sup> For more information about the end of validity please refer to NF VALIDATION Certificate available on <http://nf-validation.afnor.org/en>

#### 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, <i>E. coli</i> /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	<i>E. coli</i> /Coliform Count Plates	Method 998.08
	<i>Enterobacteriaceae</i> Count Plates	Method 2003.01
	<i>Salmonella</i> Express System	Method 2014.01
Selected processed and prepared foods	Staph Express System	Method 2003.07
Selected dairy foods	Staph Express System	Method 2003.08
Selected poultry, meats and seafood	Staph Express System	Method 2003.11
Variety of foods	Rapid Yeast and Mold Count Plates	Method 2014.05
	Rapid Aerobic Count Plates	Method 2015.13

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

### International Recognition *(cont.)*

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

#### AOAC® Performance Tested Method<sup>SM</sup>

Environmental sampling	Environmental <i>Listeria</i> Plates	Certificate Number 030601
Bottled water	Aqua Coliform Count Plates	Certificate Number 091101
Variety of Foods	<i>Salmonella</i> Express System	Certificate Number 061301
Variety of Foods	Rapid Yeast and Mold Count Plates	Certificate Number 121301
Broad Range of Foods	Rapid Aerobic Count Plates	Certificate Number 121403
Select Foods and Environmental Samples	Lactic Acid Bacteria Count Plates	Certificate Number 041701
Broad Range of Foods and Select Environmental Samples	Rapid <i>E. coli</i> /Coliform Count Plates	Certificate Number 051801

The above methods' performance was reviewed by AOAC® Research Institute and was found to perform to the manufacturer's specifications.

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

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

### Australia

#### Department of Agriculture/Australian Quarantine and Inspection Service (AQIS)

ESAM (Carcass sampling)	Aerobic Count Plates	Section 4
Meat and meat products methods	<i>E. coli</i> /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

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

## Recognition by Country *(cont.)*

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### Belgium

All foods	Aerobic Count Plates, Yeast and Mold Count Plates, Staph Express System, Select <i>E. coli</i> Count Plates, <i>Enterobacteriaceae</i> Count Plates, Coliform Count Plates, High Sensitivity Coliform Count Plates, Rapid Coliform Count Plates	List of Approved Microbiological Methods - Version 16, December, 2013
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### Brazil

#### Ministry of Agriculture

Carcass sampling	<i>E. coli</i> /Coliform Count Plates	IN 40, 2005
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### Canada

#### Health Protection Branch, Compendium of Analytical Methods

Laboratory procedures	Aerobic Count Plates, Coliform Count Plates, <i>E. coli</i> /Coliform Count Plates, Yeast and Mold Count Plates	Method MFLP-41
Environmental sampling	High-Sensitivity Coliform Count Plates	Method MFLP-41B
	Environmental <i>Listeria</i> Plates	Method MFLP-11
Dairy products	High-Sensitivity Coliform Count Plates	Method MFLP-85
Food products and environmental sampling	Staph Express System	Method MFLP-85

#### Health Protection Branch Methods

Food products and ingredients	Aerobic Count Plates	Method MFHPB-33
	Coliform Count Plates	Method MFHPB-35
	<i>E. coli</i> /Coliform Count Plates	Method MFHPB-34
	Yeast and Mold Count Plates	Method MFHPB-32

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

### Recognition by Country *(cont.)*

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#### Chile

SAG (Chile Department of Agriculture)

Carcass sampling	<i>E. coli</i> /Coliform Count Plates	January, 2004
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#### Colombia

IMVIMA

Aerobic Count Plates	Certificate No. 2006021775
Coliform Count Plates	Certificate No. 2006021761
<i>E. coli</i> /Coliform Count Plates	Certificate No. 2006021644
<i>Enterobacteriaceae</i> Count Plates	Certificate No. 2006021776
Staph Express 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, <i>E. coli</i> /Coliform Count Plates, <i>Enterobacteriaceae</i> Count Plates, Staph Express System, Yeast and Mold Count Plates	July, 2006
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#### France

AFNOR Certification (see International Validations)

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## Recognition by Country *(cont.)*

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### Japan

#### Food Hygiene Manual

Foods	Aerobic Count Plates, Coliform Count Plates, <i>E. coli</i> /Coliform Count Plates, Rapid Coliform Count Plates, Staph Express System	July, 2004
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#### Ministry of Health, Labour and Welfare

Carcass (cattle and swine) swab	<i>E. coli</i> /Coliform Count Plates	Notification No. 25
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### 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
	<i>E. coli</i> /Coliform Count Plates	Method 7.8.6.3

### Mexico

Milk and dairy products	Aerobic Count Plates, Coliform Count Plates, <i>E. coli</i> /Coliform Count Plates, Staph Express System, Yeast and Mold Count Plates	NMX-F-717-COFOCA-LEC-2006
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## Recognition by Country *(cont.)*

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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 System (for use with selected foods)	Chapter 7—Section 7.8.5
	<i>Enterobacteriaceae</i> Count Plates	Chapter 8—Section 8.2.5
	<i>E. coli</i> /Coliform Count Plates	Chapter 8—Section 8.4.5

#### New Zealand Food Safety Authority

Dairy produce and products	Aerobic Count Plates, Coliform Count Plates, <i>E. coli</i> /Coliform Count Plates, Staph Express System, Yeast and Mold Count Plates	Approved Methods Lists
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#### New Zealand Food Safety Authority

National Microbiological Database (farmed animals)	Aerobic Count Plates	Chapter 4—4.7.3
	<i>E. coli</i> /Coliform Count Plates	Chapter 4—4.8

### Nordic Countries

#### NordVal Validation

All foods	<i>E. coli</i> /Coliform Count Plates	NordVal 014
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### 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 <i>Escherichia coli</i> microorganisms, Enumeration of yeast and mold	Commission No. 35 July 1, 1999
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## Recognition by Country *(cont.)*

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### Republic of South Africa

Milk and dairy products	Aerobic Count Plates, Coliform Count Plates, <i>E. coli</i> /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 System-2006
- CMMAS assessment 3M Petrifilm Yeast and Mould Count Plate-2006

### United States

AOAC INTERNATIONAL (see International Recognition)  
 APHA (American Public Health Association)

Foods	Aerobic Count Plates, Coliform Count Plates, <i>E. coli</i> /Coliform Count Plates, <i>Enterobacteriaceae</i> 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, 5 <sup>th</sup> Edition, 2001
Dairy	Aerobic Count Plates, Coliform Count Plates, <i>Enterobacteriaceae</i> Count Plates, <i>E. coli</i> /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, 17 <sup>th</sup> Edition, 2004

USDA (United States Department of Agriculture) Agricultural Marketing Service

Laboratory Methods and Procedures	Aerobic Count Plates	Dairy Grading Branch DA Instruction
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## Recognition by Country *(cont.)*

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United States		
USDA FSIS (Food Safety and Inspection Service)		
Beef, swine, sheep, goats, poultry, horses, mules and other equine carcass sampling	<i>E. coli</i> /Coliform Count Plates	Code of Federal Regulations, Title 9, Chapter III, Part 310.25 (9 CFR 310.25)
Poultry, ducks, geese and guinea carcass sampling	<i>E. coli</i> /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, <i>E. coli</i> /Coliform Count Plates, <i>Enterobacteriaceae</i> 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)		
Foods	Aerobic Count Plates, Coliform Count Plates, <i>E. coli</i> /Coliform Count Plates	Code of Federal Regulations, Title 21, Part 2, Section 2.19 (21 CFR 2.19)
Milk	Aerobic Count Plates, Coliform Count Plates, High-Sensitivity Coliform Count Plates, Rapid Aerobic Count Plates, 3M Petrifilm Plate Reader	FDA Evaluation of Milk Laboratories, 2015 Revision
Venezuela		
Foods	<i>E. coli</i> /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.)*

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#### 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
	<i>E. coli</i> /Coliform Count Plates	04/2009/YT-CNDK
	Rapid Coliform Count Plates	05/2009/YT-CNDK
	Staph Express System	06/2009/YT-CNDK
	Coliform Count Plates	07/2009/YT-CNDK
	High-Sensitivity Coliform Plates	08/2009/YT-CNDK
	<i>Enterobacteriaceae</i> Count Plates	09/2009/YT-CNDK

##### Tiêu chu n Việt Nam (TCVN) issued by the Vietnam Standard and Quality Institute

Foods	<i>E. coli</i> /Coliform Count Plates	TCVN 9975:2013 based on AOAC OMA 991.14
	Aerobic Count Plates	TCVN 9977:2013 based on AOAC OMA 990.12
	<i>Enterobacteriaceae</i> 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	<i>E. coli</i> 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



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