

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 or MicroVal Certification (following ISO 16140)

All human food products ¹ , pet food and industrial environmental samples	Aerobic Count Plates	NF VALIDATION Certificate Number 3M 01/01-09/89 ² (as compared to ISO 4833-1 method)
Milk powders and dairy products	Rapid Aerobic Count Plates	NF VALIDATION Certificate Number 3M 01/17-11/16 ² (as compared to ISO 4833-1 method)
All human food products ¹ (except raw shellfish), pet food and industrial environmental samples	Coliform Count Plates 24 hour total coliform result	NF VALIDATION Certificate Number 3M 01/02-09/89 A ² (as compared to ISO 4832 VRBL method)
All human food products ¹ (except raw shellfish)	Coliform Count Plates 24 hour total coliform result	NF VALIDATION Certificate Number 3M 01/02-09/89 B ² (as compared to ISO 4831 MPN method)
All human food products ¹	Coliform Count Plates 24 hour thermotolerant coliform result	NF VALIDATION Certificate Number 3M 01/02-09/89 C ² (as compared to NF V08-060)
All human food products ¹ , pet food and production environmental samples	Select <i>E. coli</i> Count Plates	NF VALIDATION Certificate Number 3M 01/08-06/01 ² (as compared to ISO 16649-2 method)
All human food products ¹	Rapid Coliform Count Plates 14 hour result (Incubate at 30 °C for processed pork products and seafood)	NF VALIDATION Certificate Number 3M 01/05-03/97 A ² (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 01/05-03/97 B ² (as compared to ISO 4832 VRBL 30 °C method)
All human food products ¹ (except processed pork products)	Rapid Coliform Count Plates 24 hour result (Incubate at 30 °C for seafood products)	NF VALIDATION Certificate Number 3M 01/05-03/97 C ² (as compared to ISO 4831 MPN 30 °C method and ISO 4832 method)
All human food products ¹ , animal feed (pet food and animal feeding stuffs) and industrial production environmental samples	<i>Enterobacteriaceae</i> Count Plates	NF VALIDATION Certificate Number 3M 01/06-09/97 ² (as compared to ISO 21528-2 VRBG method)
All human food products ¹	High-Sensitivity Coliform Count Plates	NF VALIDATION Certificate Number 3M 01/07-03/99 ² (as compared to ISO 4831 and ISO 4832 method)
All human food products ¹ and pet food	Staph Express System	NF VALIDATION Certificate Number 3M 01/09-04/03 A ² (as compared to EN ISO 6888-1:2018/A2)
All human food products ¹ and pet food	Staph Express System	NF VALIDATION Certificate Number 3M 01/09-04/03 B ² (as compared to EN ISO 6888-2:2004/A1)

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International Recognition *(cont.)*

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All human food products ¹ , animal feed (pet food and animal feeding stuffs) and industrial environmental samples	Rapid Yeast and Mold Count Plates	NF VALIDATION Certificate Number 3M 01/13-07/14 ² (as compared to ISO 21527-1 method and ISO 21527-2 method)
All human food products ¹ (excluding yogurts) and industrial environmental samples	Lactic Acid Bacteria Count Plates	NF VALIDATION Certificate Number 3M 01/19-11/17 ² (as compared to ISO 15214 method)
Environmental samples, broad range of foods	Rapid <i>E. coli</i> /Coliform Count Plates	MicroVal Certificate Number 2017LR76

¹ Validation study performed on a broad range of foods

² 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 AnalysisSM

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
Select foods	<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
Broad range of foods and select environmental surfaces	Rapid <i>E. coli</i> /Coliform Count Plates	Method 2018.13

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International Recognition *(cont.)*

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AOAC® Performance Tested MethodSM

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	Aerobic Count Plates, Coliform Count Plates, High-Sensitivity Coliform Count Plates	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

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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

Meat and meat products	Coliform Count Plates (thermotolerant coliforms)	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12
	<i>E.coli</i> /Coliform Count Plates	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12
	Aerobic Count Plates	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12
	Staph Express System	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12
Milk and dairy products	Coliform Count Plates (thermotolerant coliforms)	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12
	Staph Express System	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12
Eggs and egg products	Aerobic Count Plates	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12
	Staph Express System	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12
Seafood and seafood products	Coliform Count Plates (thermotolerant coliforms)	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12
	<i>E. coli</i> /Coliform Count Plates	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12
	Staph Express System	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12
Spices and seasonings	Coliform Count Plates (thermotolerant coliforms)	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12
Animal feed and animal feed raw material	Coliform Count Plates (thermotolerant coliforms)	DOC SAC/CGAL No. 04: Scope of the microbiology area in food and water - Revision 12

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Recognition by Country *(cont.)*

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Canada

Health Protection Branch, Compendium of Analytical Methods

Food products, food ingredients and environmental sampling	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
Environmental sampling	Environmental <i>Listeria</i> Plates	Method MFLP-11
Foods and environmental sampling	High-Sensitivity Coliform Count Plates	Method MFLP-85
Food products and environmental sampling	Staph Express System	Method MFLP-21
Food products and environmental sampling	<i>Enterobacteriaceae</i> Count Plates	Method MFLP-9

Central America

Guatemala, Nicaragua, Honduras, Costa Rica, Panama

According to Central American Technical Regulation Annex to resolution 402-2018

	<i>Enterobacteriaceae</i> Count Plates	AOAC OMA 2003.01
	<i>E. coli</i> /Coliform Count Plates	AOAC OMA 991.14, 998.08
	Staph Express System	AOAC OMA 2003.07, 2003.08, 2003.11

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

France

AFNOR Certification (see International Validations)

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
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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Recognition by Country *(cont.)*

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Korea		
Food Code, Ministry of Food and Drug Safety (MFDS) 2004		
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
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
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

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Recognition by Country *(cont.)*

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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 *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

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 Mold Count Plate-2006

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Recognition by Country *(cont.)*

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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, Rapid Coliform Count Plates	Compendium of Methods for the Microbiological Examination of Foods, 5 th 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 th Edition, 2004
USDA (United States Department of Agriculture) Agricultural Marketing Service		
Laboratory Methods and Procedures	Aerobic Count Plates	Dairy Grading Branch DA Instruction 2400 Forms - NCIMS
USDA FSIS (Food Safety and Inspection Service)		
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
Beef, swine, sheep, goats, poultry, horses, mules and other equine carcass sampling	<i>E. coli</i> /Coliform Count Plates	Per US Federal Code of Regulations 9CFR310.25 AOAC OMA methods may be accepted for use by US FDA
Poultry, ducks, geese and guinea carcass sampling	<i>E. coli</i> /Coliform Count Plates	Per US Federal Code of Regulations 9CFR381.94 AOAC OMA methods may be accepted for use by US FDA
US FDA (United States Food and Drug Administration)		
Foods	Aerobic Count Plates, Coliform Count Plates, <i>E. coli</i> /Coliform Count Plates	Per US Federal Code of Regulations 21CFR2.19 AOAC OMA methods may be accepted for use by US FDA
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, 2017 Revision: https://www.fda.gov/media/115265/download

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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

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 chuẩn 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> /Coliform Count Plates	TCVN 9976:2013 based on AOAC OMA 998.08
Dairy products	Aerobic Count Plates, Coliform Count Plates	TCVN 9978:2013 based on AOAC OMA 989.10
Milk	Aerobic Count Plates, Coliform Count Plates	TCVN 9979:2013 based on AOAC OMA 986.33



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