



Ref No. : 0303/19413

## CERTIFICATE OF TESTING LABORATORY ACCREDITATION

This is to certify that

*Laboratory of K.M.P. BIOTECH CO., LTD.  
188/9 Moo 2, Tambon Khlongtumru, Amphoe Mueang,  
Changwat Chon Buri 20000*

has successfully undergone assessment according to ISO/IEC 17025 : 2017  
and under the Bureau of Laboratory Accreditation, Department of Science Service  
for the requirements, regulations and criteria for the competence of testing laboratories

LABORATORY ACCREDITATION  
Accreditation Number TESTING - 0014  
BLA-DSS

The scope of accreditation is as annexed hereto

Issue date : 29<sup>th</sup> November 2023

Expired date : 18<sup>th</sup> May 2026

Signature : *Chantarat Vorasapavit*

(Mrs. Chantarat Vorasapavit)

Scientist, Senior Professional Level

Acting Director of Bureau of Laboratory Accreditation

Bureau of Laboratory Accreditation, Department of Science Service,  
Ministry of Higher Education, Science, Research and Innovation

## Scope of Testing Laboratory Accreditation

Laboratory Name : Laboratory of K.M.P. BIOTECH CO., LTD.  
 Address : 188/9 Moo 2, Tambon Khlongtumru, Amphoe Mueang,  
 Changwat Chon Buri 20000  
 Accreditation Number : Testing - 0014  
 Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Feed - Probiotics Powder	- <i>Bacillus</i> spp. CFU/g  - Mesophilic lactic acid bacteria CFU/g  - Yeasts and moulds CFU/g  - Presumptive <i>E. coli</i> MPN/g  - <i>Salmonella</i> spp. Detected or not detected/25 g	BS EN 15784 : 2021   ISO 15214 : 1998   ISO 21527-2 : 2008   ISO 7251 : 2005   ISO 6579-1 : 2017/ Amd.1 : 2020

Initial Issue Date 16<sup>th</sup> October 2006

Issue Number 16

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Laboratory Status :  Permanent     Site     Temporary     Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1  (cont.)	Feed  - Probiotics Powder	- Coliforms  MPN/g  - Total plate count  CFU/g  - <i>Enterococcus (E. faecium) spp.</i>  CFU/g  - <i>Staphylococcus aureus</i>  Detected or not detected/  1 g or 0.1 g	ISO 4831 : 2006    ISO 4833-1 : 2013/ Amd.1 : 2022    BS EN 15788 : 2021    ISO 6888-3 : 2003

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Feed - Probiotics Powder	- <i>Clostridium perfringens</i> CFU/g	ISO 7937 : 2004
		- <i>Pediococcus</i> spp. CFU/g	BS EN 15786 : 2021
		- <i>Lactobacillus</i> spp. CFU/g	BS EN 15787 : 2021
	- Probiotics Liquid	- <i>Bacillus</i> spp. CFU/mL	BS EN 15784 : 2021
		- Mesophilic lactic acid bacteria CFU/mL	ISO 15214 : 1998

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1  (cont.)	Feed  - Probiotics Liquid	- Yeasts and moulds CFU/mL  - Presumptive <i>E. coli</i> MPN/mL  - <i>Salmonella</i> spp. Detected or not detected/25 mL  - Coliforms MPN/mL  - Total plate count CFU/mL	ISO 21527-1 : 2008   ISO 7251 : 2005   ISO 6579-1 : 2017/ Amd.1 : 2020   ISO 4831 : 2006   ISO 4833-1 : 2013/ Amd.1 : 2022

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1 (cont.)	Feed - Probiotics Liquid	- <i>Enterococcus (E. faecium) spp.</i> CFU/mL  - <i>Staphylococcus aureus</i> Detected or not detected/ 1 mL or 10 mL  - <i>Clostridium perfringens</i> CFU/mL  - <i>Pediococcus spp.</i> CFU/mL  - <i>Lactobacillus spp.</i> CFU/mL	BS EN 15788 : 2021  ISO 6888-3 : 2003  ISO 7937 : 2004  BS EN 15786 : 2021  BS EN 15787 : 2021

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2	Water	- <i>Salmonella</i> spp. Detected or not detected/100 mL  - <i>Clostridium perfringens</i> CFU/100 mL  - Coliforms MPN/100 mL  - <i>E. coli</i> MPN/100 mL	ISO 19250 : 2010  Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials, 2015, part 6, B, UK  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023 part 9221 B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023 part 9221 B, G

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2 (cont.)	Water	- Heterotrophic plate count CFU/mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023 part 9215 B
3	Animal faeces	- <i>Salmonella</i> spp. Detected or not detected/25 g	ISO 6579-1 : 2017/ Amd.1 : 2020
4	Environmental samples from the primary production stage - Cloacal swab - Drag swab - Boot swab - Surface swab - Egg shell - Feather - Litter - Hatcher basket liner	- <i>Salmonella</i> spp. Detected or not detected /test portion	ISO 6579-1 : 2017/ Amd.1 : 2020

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
5	Food - Probiotics Powder	- Mesophilic lactic acid bacteria CFU/g  - Yeasts and Moulds CFU/g  - <i>Salmonella</i> spp. Detected or not detected/25 g  - Coliforms MPN/g  - <i>E.coli</i> MPN/g	ISO 15214 : 1998   ISO 21527-2 : 2008   ISO 6579-1 : 2017/ Amd.1 : 2020   FDA Bacteriological Analytical Manual online, Chapter 4, July 2017

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
5 (cont.)	Food - Probiotics Powder	- Total plate count CFU/g	ISO 4833-1 : 2013/ Amd.1 : 2022
		- <i>Enterococcus</i> spp. CFU/g	Compendium of Methods for the Microbiological Examination of Foods, 5 <sup>th</sup> ed., 2015, chapter 10
	- Probiotics Liquid	- Mesophilic lactic acid bacteria CFU/mL	ISO 15214 : 1998
		- Yeasts and Moulds CFU/mL	ISO 21527-1 : 2008
		- <i>Salmonella</i> spp. Detected or not detected/25 mL	ISO 6579-1 : 2017/ Amd.1 : 2020

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5 (cont.)	Food - Probiotics Liquid	- Coliforms MPN/mL  - <i>E.coli</i> MPN/mL  - Total plate count CFU/mL  - <i>Enterococcus</i> spp. CFU/mL	FDA Bacteriological Analytical Manual online, Chapter 4, July 2017     ISO 4833-1 : 2013/ Amd.1 : 2022   Compendium of Methods for the Microbiological Examination of Foods, 5 <sup>th</sup> ed., 2015, chapter 10

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