

Name: China Center of Industrial Culture Collection, China National Research Institute of Food & Fermentation Industries Co., Ltd.

Address: Building 6, No.24 Yard, Jiuxianqiao Middle Road, Chaoyang District, Beijing, China

Registration No. CNAS L9421

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2026-02-09 Expiry Date: 2028-11-01

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
Not grouped						
1	Industrial microbe	1	Bacteria Identification	Microbiological Examination Method of Bacteria Polyphase Identification FMIC-QO01-001-2015	According to: 1) "Bergey's Manual of Systematic Bacteriology" second edition; 2) "List of Prokaryotic names with Standing in Nomenclature,	2025-01-13



No. CNAS L9421

第 1 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
					LPSN", accredited only for 3766 genus (totally 20510 species).	
				Microbiological Examination Method of Bacteria Identification with 16S rDNA FMIC-QO01-002-2015	According to: 1) "Bergey's Manual of Systematic Bacteriolog y" Second Edition; 2) "List of Prokaryotic names with Standing in Nomenclat ure, LPSN", accredited only for 3766 genus (totally 20510 species).	
		2	Fungi Identification	Microbiological Examination Method of Fungi Polyphase Identification FMIC-QO01-003-2015	According to: 1)	2025-01-13



No. CNAS L9421

The scope of the accreditation in Chinese remains the definitive version.

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		№	Item/ Parameter			
					"Compendium of Soil Fungi" Second Edition 2007; 2) "Fungi and Food Spoilage" Third Edition 2009; 3) Catalogue of life https://www.catalogueoflife.org . Accredited only for 161 genus (totally 10697 species).	
				Microbiological Examination Method of Fungi Identification with ITS rDNA FMIC-Q001-004-2015	According to: 1) "Compendium of Soil Fungi" Second Edition 2007; 2)	2025-01-13



No. CNAS L9421

第 3 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

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		№	Item/ Parameter			
					"Fungi and Food Spoilage" Third Edition 2009; 3) Catalogue of life https://www.catalogueoflife.org . Accredited only for 161 genus (totally 10697 species).	
		3	Yeast Identification	Microbiological Examination Method of Yeast Polyphase Identification FMIC-QO01-005-2015	According to: "Yeasts: A Taxonomic Study" Fifth Edition, 2011. Accredited only for 149 genus (totally 1500 species).	2025-01-13



No. CNAS L9421

第 4 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Microbiological Examination Method of Yeast Identification with 26S rDNA FMIC-QO01-006-2015	According to: "Yeasts: A Taxonomic Study" Fifth Edition, 2011. Accredited only for 149 genus(totally 1500 species).	2025-01-13
				Microbiological Examination Method of Yeast Identification with ITS rDNA FMIC-QO01-047-2025	According to: 1)"Yeasts: A Taxonomic Study" Fifth Edition, 2011. 2)Catalogue of life https://www.catalogueoflife.org . Accredited only for	2026-02-09



No. CNAS L9421

第 5 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
					160 genus (totally 2700 species).	
		4	Chemical Composition of Cell Wall(amino acid and sugar)	Microbiological Examination Method of Chemical Composition of Cell Wall by Thin Layer Chromatography(TLC) FMIC-QO01-007-2015		2025-01-13
		5	Respiratory quinones	Microbiological Examination Method of Respiratory Quinones by High Performance Liquid Chromatography(HPLC) FMIC-QO01-008-2015		2025-01-13
		6	Fatty acid composition	Microbiological Examination Method of Fatty Acid Composition by Gas Chromatography(GC) FMIC-QO01-011-2015		2025-01-13
		7	Polar lipid	Microbiological Examination Method of Polar Lipid by Thin Layer Chromatography(TLC) FMIC-QO01-012-2015		2025-01-13
		8	Antimicrobial susceptibility	Performance Standards for Antimicrobial Susceptibility Testing CLSI M100-2025	Accredited only for E-Test on Enterobacteriales (Table 2A-1), Salmonella, and Shigella (Table 2A-2)	2026-02-09
				Reference method for broth dilution antifungal susceptibility testing of filamentous fungi CLSI M38-2017	Except for dermatophyte moulds	2025-01-13



No. CNAS L9421

第 6 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Reference method for broth dilution antifungal susceptibility testing of yeasts CLSI M27-2017		2025-01-13
				Methods for antimicrobial dilution and disk susceptibility testing of infrequently isolated or fastidious bacteria CLSI M45--2015	Except for Table 21, potential Bacterial Agents of Bioterrorism	2025-01-13
				Guidance on the characterization of microorganisms used as feed additives or as production organisms 2.2.1 Antimicrobial susceptibility EFSA 5206-2018		2025-01-13
				National Food Safety Standard – Procedures for Safety Assessment of Microbial Food Cultures Appendix E Determination of Antimicrobial Resistance in Bacterial Strains for Food Use (Broth Microdilution Method) GB 31615.2-2025		2026-02-09
		9	Bacteria VITEK Identification	Microbiological Examination Method of Bacteria Identification with VITEK 2 Compact systems FMIC-QO01-016-2017	According to: "Standard operation manual of VITEK 2 Compact Systems", accredited only for 553 species.	2025-01-13
		10	Microbiology MALDI-TOF MS	General microorganism identification method with matrix-assisted laser desorption/ionization time of flight mass	Accredited only for	2026-02-09



No. CNAS L9421

第 7 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
			Rapid Identification	spectrometry GB/T 33682-2025	bacteria (totally 4059 species) yeast (totally 219 species) and fungi (totally 42 species) in the database	
		11	gyrB gene Identification	Microbiological Examination Method of Bacteria Identification with gyrB gene FMIC-Q001-017-2017	According to: 1) "Bergey's Manual of Systematic Bacteriology" Second Edition Volume Three Bacillus; 2) "List of Prokaryotic names with Standing in Nomenclature, LPSN", accredited	2025-01-13



No. CNAS L9421

第 8 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
					only for Bacillus and its taxonomic change strains (totally 428 species).	
		12	pheS gene Identification	Microbiological Examination Method of Bacteria Identification with pheS gene FMIC-QO01-018-2017	According to: 1) "Bergey's Manual of Systematic Bacteriology" Second Edition Volume Three Lactobacillus; 2) "List of Prokaryotic names with Standing in Nomenclature, LPSN", accredited only for Lactobacillus and its	2025-01-13



No. CNAS L9421

第 9 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
					taxonomic change strains (totally 304 species).	
		13	BenA gene identification	Microbiological Examination Method of Fungi Identification with BenA Gene FMIC-Q001-019-2018	1) Catalogue of life https://www.catalogueoflife.org ; 2) Houbraken J, Kocsubé S, Visagie CM, et al., Classification of Aspergillus, Penicillium, Talaromyces and related genera (Eurotiales): An overview of families, genera,	2025-01-13



No. CNAS L9421

第 10 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
					subgenera, sections, series and species [J]. Studies in mycology, 2020, 95:5-169. Accredited only for Aspergillus (totally 537 species) Penicillium (totally 524 species) and its taxonomic change strains.	
		14	Whole Genome Sequencing	Microbiological Examination Method of Bacterial Whole Genome Sequencing (WGS) FMIC-QO01-021-2020	Accredited only for BGI second sequencing platform of Bacteria.	2025-01-13
				<9110> Technical Guidelines for Whole Genome Sequencing of Microorganisms Chinese Pharmacopoeia -2025	Accredited only for BGI second sequencing platform	2026-02-09



No. CNAS L9421

第 11 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
					for Microorganisms.	
		15	TEF1 Gene Identification	Microbiological Examination Method of Fungi Identification with TEF1 Gene FMIC-QO01-030-2023		2025-01-13
		16	Bacteria Identification with Average Nucleotide Identity	Microbiological Examination Method of Bacteria Identification with Average Nucleotide Identity FMIC-QO01-022-2020	According to "Bergey's Manual of Systematic Bacteriology" second edition (online), accredited only for 17302 species.	2025-01-13
		17	Bacteria Single Nucleotide Polymorphism (SNP)	Microbiological Examination Method of Bacteria Single Nucleotide Polymorphism (SNP) FMIC-QO01-023-2020		2025-01-13
		18	Bacterial Complete Genome Sequence	Microbiology of the food chain-Whole genome sequencing for typing and genomic characterization of bacteria-General requirements and guidance ISO 23418-2022		2026-02-09
		19	Bacterial animal pathogenicity	Technical guidelines for safety inspection and evaluation of strains for health food raw materials (2020 Edition) appendix A Bacterial pathogenicity test method for health food raw materials		2025-01-13
				National Food Safety Standard - Procedures for Safety Assessment of Microbial Food Cultures Appendix A		2026-02-09



No. CNAS L9421

第 12 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Pathogenicity Testing Method for Food Use Bacteria GB 31615.2-2025		
		20	Bacteria antibiotic resistance genes	Microbiological Examination Method of Bacteria Antibiotic Resistance Genes and Virulence Genes FMIC-Q001-024-2020		2025-01-13
		21	Bacteria virulence genes	Microbiological Examination Method of Bacteria Antibiotic Resistance Genes and Virulence Genes FMIC-Q001-024-2020		2025-01-13
		22	Plasmid Copy Number	Microbiological Examination Method of Escherichia coli Plasmid Copy Number by qPCR FMIC-Q001-025-2022		2025-01-13
				Microbiological Examination Method of Escherichia coli Plasmid Copy Number by droplet digital PCR FMIC-Q001-032-2023		2025-01-13
		23	Bacterial Purity	Microbiological Examination Method of Bacterial Purity Test FMIC-Q001-026-2022		2025-01-13
		24	Plasmid Loss Rate	<3406>Plasmid Loss Rate /Retention Rate Test Method Chinese Pharmacopoeia-2025		2026-02-09
		25	Antibacterial Activity	National Standard for Food Safety - Microbiological Examination of food - Determination of Antimicrobial Activity of Microbial Enzyme Preparations GB 4789.43-2016		2025-01-13
		26	Transmission Electron Microscope Examination	Microbiological Examination Method of Transmission Electron Microscope by Negative Staining FMIC-Q001-045-2025		2026-02-09
		27	Animal Pathogenicity of Filamentous Fungi	Pathogenicity Test Method of Filamentous Fungi for Health Food Raw Materials Technical Guidelines for Safety Inspection and Evaluation of Strains for Health Food Raw Materials -2020 Appendix B		2025-01-13
				National Food Safety Standard - Procedures for Safety Assessment of Microbial Cultures Used in Food Appendix B: Pathogenicity Test Methods for Filamentous Fungi Used in Food GB 31615.2-2025		2026-02-09



No. CNAS L9421

第 13 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		28	Plasmid Examination	Microbiological Examination Method of Escherichia coli Plasmid Examination-Restriction Endonuclease Analysis FMIC-QO01-028-2023		2025-01-13
		29	Proportion of Bacteria with/without Plasmids	Microbiological Examination Microbiological Examination Method of Proportion of Bacteria with/without Plasmids FMIC-QO01-031-2023		2026-02-09
		30	Plasmid Retention Rate	<3406> Plasmid Loss Rate /Retention Rate Test Method Chinese Pharmacopoeia-2025		2026-02-09
		31	Yeast Animal Pathogenicity	National Food Safety Standard- Procedures for Safety Assessment of Microbial Cultures Used in Food Appendix C: Pathogenicity Test Methods for Yeast Used in Food GB 31615.2-2025		2026-02-09
		32	Microbial Enumeration	General Introduction to Microecological Live Bacterial Products Appendix 2 Method of Microbial Enumeration Tests in Microecological Live Bacterial Products Chinese Pharmacopoeia -2025		2026-02-09
				"United States Pharmacopoeia" <2021>Microbial Enumeration Tests—Nutritional and Dietary Supplements Toatl Aerobic Microbial Count	Accredited only for plate mehod	2025-01-13
		33	Plasmid Sequence	Microbiological Examination Method of Plasmid Sequencing based on Dideoxy Sequencing Technique FMIC-QO01-037-2024		2025-01-13
		34	Bacteria Target Gene Sequence	Microbiological Examination Method of Bacteria Target Gene Sequence FMIC-QO01-038-2024		2025-01-13
		35	Fungi Target Gene Sequence	Microbiological Examination Method of Fungi Target Gene Sequence FMIC-QO01-039-2024		2025-01-13
		36	Plasmid Yield	Microbiological Examination Method of Bacterial Plasmid Yield FMIC-QO01-029-2023		2025-01-13



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		№	Item/ Parameter			
		37	Bacteria Phage Detection	Microbiological Examination Method of Bacteria Phage Detection Double-layer Plate Method FMIC-QO01-042-2024		2025-01-13
		38	Hemolysis	Microbiological Examination Method of Hemolysis Detection FMIC-QO01-043-2024		2025-01-13
		39	Toxicity and Anti-nutritional Effect of Foreign Protein by Bioinformatics Tools	Food safety detection of genetically modified organisms and derived products-The analytical method of the toxicity and anti-nutritional effect of foreign protein by bioinformatics tools Agricultural Ministry Announcement No.2630-16-2017		2026-02-09
		40	Allergenicity of Foreign Protein by using Bioinformatics Tools	Food Safety Detection of Genetically Modified Organisms and Derived Products-the Analytical Method of the Allergenicity of Foreign Protein by Using Bioinformatics Tools Agricultural Ministry Announcement No.1485-18-2010		2026-02-09
2	Industrial Cell	1	Cell Identification	Cytological Examination Method of Cell Short Tandem Repeat (STR) FMIC-QO01-040-2024		2025-01-13
				Authentication of Human Cell Lines Standardization of Short Tandem Repeat (STR) Profiling ANSI ATCC ASN-0002-2022		2025-01-13
				<3430> Cell Identification - Method I: Multiplex PCR Method Chinese Pharmacopoeia-2025		2026-02-09
				<3430> Cell Identification - Method II: DNA Barcoding Method Chinese Pharmacopoeia-2025		2026-02-09
		2	Sterility Testing-Bacteria and Fungi Testing	<1101>Sterility Testing Method Chinese Pharmacopoeia-2025	Accredited only for cells and cell supernatant (Chinese Pharmacopoeia -	2026-02-09



No. CNAS L9421

第 15 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
					2025<0234 >)	
		3	Retroviruses Viruses Detection	<2034> Animal Cell Substrates Preparation and Quality Control for the Production of Biologics Appendix 1: Reverse Transcriptase Activity Assay Method Chinese Pharmacopoeia-2025		2026-02-09
		4	Mycoplasma Testing	<3301> Mycoplasma Testing Method Chinese Pharmacopoeia-2025		2026-02-09
3	Food	1	Enumeration of Bifidobacterium	National Standard for Food Safety - Microbiological Examination of Food - Bifidobacterium Test GB 4789.34-2016		2025-01-13
		2	Enumeration of Lactic Acid Bacteria	National Standard for food safety - Microbiological examination of food - Lactic Acid Bacteria Test GB 4789.35-2023		2025-01-13
		3	Enumeration of Lactocaseibacillus rhamnosus	Examination of microbial food culture Detection of Lactocaseibacillus rhamnosus PMA-qPCR method T/CIFST 020-2024		2025-01-13
		4	Performance Testing of Culture Medium	National Food Safety Standards for Microbiological Testing of Food Quality Requirements for Culture Media and Reagents 6 Performance Testing Methods for Culture Media and Reagents GB 4789.28-2024		2025-01-13
		5	L/D-Lactic Acid Content	Quantitative Determination Method of L/D-Lactic Acid Produced by lactic acid bacteria T/CIFST 028-2025		2026-02-09
4	Fermented Products	1	Production Strain Residue	Ministry of Agriculture and Rural Affairs -Guide for Identification and Safety Evaluation of Production Strains of Directly Feed Microorganisms and Fermented Products-Appendix E Evaluation Method for Live Cells without Production Strains in Fermented Products Nongbanmu[2021] No. 43		2025-01-13
				Requirements for Application Materials for Safety Assessment of Genetically Modified Microorganisms Used in Food Processing (Trial)- Appendix 2 Evaluation of Absence of Viable Production		2026-02-09



No. CNAS L9421

第 16 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Strain in Genetically Modified Microbial Products for Food Processing Notice of the China National Center for Food Safety Risk Assessment on Improving the Requirements for Safety Evaluation Data of "Three New Foods" -2024		
		2	Presence of DNA from the Production Strain	Application Material Requirements of Safety Evaluation for Genetically Modified Microorganisms Used in Food Processing (Trial) Annex 1 Presence of DNA from the Production Strain in Genetically Modified Microorganism Products Used in Food Processing Notice of the China National Center for Food Safety Risk Assessment on Improving the Requirements for Safety Evaluation Data of "Three New Foods" -2024		2026-02-09
				Guidance for Identification and Safety Evaluation of Production Strain for Direct-Fed Microorganisms and Fermentation Products Annex F Presence of DNA from the Production Strain in Fermentation Products Nongbanmu [2021] No. 43 Ministry of Agriculture and Rural Affairs		2026-02-09
		3	Residual Protein Content	Appendix A.4 Determination of Residual Protein Content in 2'-Fucosyllactose Announcement of the National Health Commission on 15 "Three New Food Categories" Including Peach Gum No.8-2023		2026-02-09



No. CNAS L9421

第 17 页 共 17 页

The scope of the accreditation in Chinese remains the definitive version.