



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES Page No. 1 of 20
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, Issue date : 22.01.2026
 Happy Colony, Kothrud, Validity : 21.01.2027
 Pune 411038, Maharashtra
Certificate No.: R-0002 Amendment date: NA

S. No.	Types of reference materials (Certified Reference Materials, Reference Materials or both) Category & Subcategory	Reference Material Matrix or Artefact	Property / Properties Characterized	Approach used to assign property values/ Characterization Technique	Facility
1	Category: Biological and Clinical Properties Subcategory: Bacteriology	Aerococcus viridans	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
2	Category: Biological and Clinical Properties Subcategory: Bacteriology	Alicyclobacillus acidoterrestris	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
3	Category: Biological and Clinical Properties Subcategory: Bacteriology	Azotobacter chroococcum	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 	Permanent



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Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES Page No. 2 of 20
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, Issue date : 22.01.2026
 Happy Colony, Kothrud, Validity : 21.01.2027
 Pune 411038, Maharashtra
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			<ul style="list-style-type: none"> • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • 16S rDNA sequencing for identification 	
4	Category: Biological and Clinical Properties Subcategory: Bacteriology	Bacillus subtilis	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
5	Category: Biological and Clinical Properties Subcategory: Bacteriology	Bacillus amyloliquefaciens	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
6	Category: Biological and Clinical Properties Subcategory: Bacteriology	Bacillus atrophaeus	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India

Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name:	PURE MICROBES	Page No. 3 of 20
Address:	Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, Happy Colony, Kothrud, Pune 411038, Maharashtra	Issue date : 22.01.2026
Certificate No.:	R-0002	Validity : 21.01.2027
		Amendment date: NA

7	Category: Biological and Clinical Properties Subcategory: Bacteriology	Bacillus cereus	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
8	Category: Biological and Clinical Properties Subcategory: Bacteriology	Bacillus cereus var mycoides	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
9	Category: Biological and Clinical Properties Subcategory: Bacteriology	Bacillus coagulans	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
10	Category: Biological and Clinical Properties	Bacillus megaterium	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media 	Permanent



Certificate



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES Page No. 4 of 20
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, Issue date : 22.01.2026
 Happy Colony, Kothrud, Validity : 21.01.2027
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Certificate No.: R-0002 Amendment date: NA

	Subcategory: Bacteriology		colony characteristic on selective plate <ul style="list-style-type: none"> • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	• Biochemical Test (IMViC, TSI, Catalase, Oxidase) <ul style="list-style-type: none"> • 16S rDNA sequencing for identification 	
11	Category: Biological and Clinical Properties Subcategory: Bacteriology	Alkalihalobacillus clausii	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
12	Category: Biological and Clinical Properties Subcategory: Bacteriology	Bacillus pumilis	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
13	Category: Biological and Clinical Properties Subcategory: Bacteriology	Bacillus licheniformis	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) 	Permanent



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES Page No. 5 of 20
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, Issue date : 22.01.2026
 Happy Colony, Kothrud, Validity : 21.01.2027
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			<ul style="list-style-type: none"> • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • 16S rDNA sequencing for identification 	
14	Category: Biological and Clinical Properties Subcategory: Bacteriology	Clostridium perfringens	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
15	Category: Biological and Clinical Properties Subcategory: Bacteriology	Clostridium sporogenes	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
16	Category: Biological and Clinical Properties Subcategory: Bacteriology	Clostridium butyricum	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES Page No. 6 of 20
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, Issue date : 22.01.2026
 Happy Colony, Kothrud, Validity : 21.01.2027
 Pune 411038, Maharashtra
Certificate No.: R-0002 Amendment date: NA

17	Category: Biological and Clinical Properties Subcategory: Bacteriology	Cronobacter sakazaki	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
18	Category: Biological and Clinical Properties Subcategory: Bacteriology	Citrobacter freundii	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
19	Category: Biological and Clinical Properties Subcategory: Bacteriology	E coli (Davis mutant)	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
20	Category: Biological and Clinical Properties	E coli OH157	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media 	Permanent



Certificate

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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES **Page No. 7 of 20**
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, **Issue date** : 22.01.2026
Happy Colony, Kothrud, **Validity** : 21.01.2027
Pune 411038, Maharashtra
Certificate No.: R-0002 **Amendment date:** NA

	Subcategory: Bacteriology		colony characteristic on selective plate <ul style="list-style-type: none"> Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	
21	Category: Biological and Clinical Properties Subcategory: Bacteriology	E. coli	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
22	Category: Biological and Clinical Properties Subcategory: Bacteriology	Enterobacter aerogenes	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
23	Category: Biological and Clinical Properties Subcategory: Bacteriology	Enterobacter cloacae	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 	Permanent



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES Page No. 8 of 20
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, Issue date : 22.01.2026
 Happy Colony, Kothrud, Validity : 21.01.2027
 Pune 411038, Maharashtra
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			<ul style="list-style-type: none"> • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • 16S rDNA sequencing for identification 	
24	Category: Biological and Clinical Properties Subcategory: Bacteriology	Enterococcus faecalis	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
25	Category: Biological and Clinical Properties Subcategory: Bacteriology	Enterococcus faecium	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
26	Category: Biological and Clinical Properties Subcategory: Bacteriology	Enterococcus hirae	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent



Certificate



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES Page No. **9** of **20**
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, Issue date : 22.01.2026
 Happy Colony, Kothrud, Validity : 21.01.2027
 Pune 411038, Maharashtra
Certificate No.: R-0002 Amendment date: NA

27	Category: Biological and Clinical Properties Subcategory: Bacteriology	Geobacillus stereothermophilus	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
28	Category: Biological and Clinical Properties Subcategory: Bacteriology	Klebsiella pneumoniae	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
29	Category: Biological and Clinical Properties Subcategory: Bacteriology	Lactobacillus plantarum	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
30	Category: Biological and Clinical Properties	Lactobacillus fermentum	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media 	Permanent



Certificate



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES **Page No. 10 of 20**
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, **Issue date** : 22.01.2026
 Happy Colony, Kothrud, **Validity** : 21.01.2027
 Pune 411038, Maharashtra
Certificate No.: R-0002 **Amendment date:** NA

	Subcategory: Bacteriology		colony characteristic on selective plate <ul style="list-style-type: none"> Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	
31	Category: Biological and Clinical Properties Subcategory: Bacteriology	Legionella pneumophila	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
32	Category: Biological and Clinical Properties Subcategory: Bacteriology	Legionella pneumophila	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
33	Category: Biological and Clinical Properties Subcategory: Bacteriology	Listeria innocua	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 	Permanent



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES Page No. 11 of 20
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, Issue date : 22.01.2026
 Happy Colony, Kothrud, Validity : 21.01.2027
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			<ul style="list-style-type: none"> • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • 16S rDNA sequencing for identification 	
34	Category: Biological and Clinical Properties Subcategory: Bacteriology	Listeria ivanovii	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
35	Category: Biological and Clinical Properties Subcategory: Bacteriology	Listeria monocytogenes	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
36	Category: Biological and Clinical Properties Subcategory: Bacteriology	Listeria seeligeri	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent



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As per ISO 17034:2016

CAB Name: PURE MICROBES **Page No. 12 of 20**
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, **Issue date** : 22.01.2026
 Happy Colony, Kothrud, **Validity** : 21.01.2027
Certificate No.: R-0002 **Amendment date:** NA

37	Category: Biological and Clinical Properties Subcategory: Bacteriology	Micrococcus luteus	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
38	Category: Biological and Clinical Properties Subcategory: Bacteriology	Proteus mirabilis	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
39	Category: Biological and Clinical Properties Subcategory: Bacteriology	Pseudomonas aeruginosa	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
40	Category: Biological and Clinical Properties	Pseudomonas fluorescens	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media 	Permanent



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As per ISO 17034:2016

CAB Name: PURE MICROBES **Page No. 13 of 20**
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, **Issue date** : 22.01.2026
Happy Colony, Kothrud, **Validity** : 21.01.2027
Pune 411038, Maharashtra
Certificate No.: R-0002 **Amendment date:** NA

	Subcategory: Bacteriology		colony characteristic on selective plate <ul style="list-style-type: none"> Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	
41	Category: Biological and Clinical Properties Subcategory: Bacteriology	Pseudomonas putida	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
42	Category: Biological and Clinical Properties Subcategory: Bacteriology	Rhizobium leguminosarum	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
43	Category: Biological and Clinical Properties Subcategory: Bacteriology	Rhodococcus equi	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 	Permanent



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES **Page No. 14 of 20**
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, **Issue date** : 22.01.2026
 Happy Colony, Kothrud, **Validity** : 21.01.2027
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Certificate No.: R-0002 **Amendment date:** NA

			<ul style="list-style-type: none"> • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • 16S rDNA sequencing for identification 	
44	Category: Biological and Clinical Properties Subcategory: Bacteriology	Salmonella abony	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
45	Category: Biological and Clinical Properties Subcategory: Bacteriology	Salmonella enteriditis	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
46	Category: Biological and Clinical Properties Subcategory: Bacteriology	Salmonella typhimurium	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent



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Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES **Page No. 15 of 20**
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, **Issue date** : 22.01.2026
 Happy Colony, Kothrud, **Validity** : 21.01.2027
 Pune 411038, Maharashtra
Certificate No.: R-0002 **Amendment date:** NA

47	Category: Biological and Clinical Properties Subcategory: Bacteriology	Salmonella choleraesius	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
48	Category: Biological and Clinical Properties Subcategory: Bacteriology	Serratia marcescens	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
49	Category: Biological and Clinical Properties Subcategory: Bacteriology	Shigella boydii	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
50	Category: Biological and Clinical Properties	Shigella dysenteriae	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media 	Permanent



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Scope



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES **Page No. 16 of 20**
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, **Issue date** : 22.01.2026
Happy Colony, Kothrud, **Validity** : 21.01.2027
Pune 411038, Maharashtra
Certificate No.: R-0002 **Amendment date:** NA

	Subcategory: Bacteriology		colony characteristic on selective plate <ul style="list-style-type: none"> Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	
51	Category: Biological and Clinical Properties Subcategory: Bacteriology	Shigella flexineri	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
52	Category: Biological and Clinical Properties Subcategory: Bacteriology	Staphylococcus aureus	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
53	Category: Biological and Clinical Properties Subcategory: Bacteriology	Staphylococcus aureus (CAMP)	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 	Permanent



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES Page No. 17 of 20
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, Issue date : 22.01.2026
 Happy Colony, Kothrud, Validity : 21.01.2027
 Pune 411038, Maharashtra
Certificate No.: R-0002 Amendment date: NA

			<ul style="list-style-type: none"> • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • 16S rDNA sequencing for identification 	
54	Category: Biological and Clinical Properties Subcategory: Bacteriology	Staphylococcus epidermidis	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
55	Category: Biological and Clinical Properties Subcategory: Bacteriology	Streptococcus mutans	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
56	Category: Biological and Clinical Properties Subcategory: Bacteriology	Streptomyces griseus	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES **Page No. 18 of 20**
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, **Issue date** : 22.01.2026
Happy Colony, Kothrud, **Validity** : 21.01.2027
Pune 411038, Maharashtra
Certificate No.: R-0002 **Amendment date:** NA

57	Category: Biological and Clinical Properties Subcategory: Bacteriology	Vibrio cholerae	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
58	Category: Biological and Clinical Properties Subcategory: Bacteriology	Vibrio parahaemolyticus	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
59	Category: Biological and Clinical Properties Subcategory: Bacteriology	Vibrio vulnificus	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological colony characteristic on selective plate Biochemical test observations (Doc 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media Biochemical Test (IMViC, TSI, Catalase, Oxidase) 16S rDNA sequencing for identification 	Permanent
60	Category: Biological and Clinical Properties	Vibrio alginolyticus	<ul style="list-style-type: none"> Gram Character and Microscopic observation Morphological 	<ul style="list-style-type: none"> Gram Staining Technique Colony Morphology on Selective Media 	Permanent



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES **Page No. 19 of 20**
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, **Issue date** : 22.01.2026
Happy Colony, Kothrud, **Validity** : 21.01.2027
Pune 411038, Maharashtra
Certificate No.: R-0002 **Amendment date:** NA

	Subcategory: Bacteriology		colony characteristic on selective plate <ul style="list-style-type: none"> • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	• Biochemical Test (IMViC, TSI, Catalase, Oxidase) <ul style="list-style-type: none"> • 16S rDNA sequencing for identification 	
61	Category: Biological and Clinical Properties Subcategory: Bacteriology	Aeromonas hydrophilia	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
62	Category: Biological and Clinical Properties Subcategory: Bacteriology	Alcaligenes faecalis	<ul style="list-style-type: none"> • Gram Character and Microscopic observation • Morphological colony characteristic on selective plate • Biochemical test observations (Doc • 16S rDNA sequence homology > 98% 	<ul style="list-style-type: none"> • Gram Staining Technique • Colony Morphology on Selective Media • Biochemical Test (IMViC, TSI, Catalase, Oxidase) • 16S rDNA sequencing for identification 	Permanent
63	Category: Biological and Clinical Properties Subcategory: Mycology	Aspergillus brasiliensis	<ul style="list-style-type: none"> • Microscopic observation • Morphological colony characteristic on selective plate • ITS sequence homology > 98% 	<ul style="list-style-type: none"> • Monochrome staining Technique • Colony Morphology on Selective Media • ITS region sequencing for identification 	Permanent



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Reg Office: 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



Scope of Accreditation for Reference Material Producers

As per ISO 17034:2016

CAB Name: PURE MICROBES **Page No. 20 of 20**
Address: Sr. No. 167/A, H No. 8/9, Plot no. 7/8, 1st Lane, **Issue date** : 22.01.2026
Happy Colony, Kothrud, **Validity** : 21.01.2027
Pune 411038, Maharashtra
Certificate No.: R-0002 **Amendment date:** NA

64	Category: Biological and Clinical Properties Subcategory: Mycology	Aspergillus flavus	<ul style="list-style-type: none">· Microscopic observation· Morphological colony characteristic on selective plate· ITS sequence homology > 98%	<ul style="list-style-type: none">· Monochrome staining Technique· Colony Morphology on Selective Media· ITS region sequencing for identification	Permanent
65	Category: Biological and Clinical Properties Subcategory: Mycology	Aspergillus versicolor	<ul style="list-style-type: none">· Microscopic observation· Morphological colony characteristic on selective plate· ITS sequence homology > 98%	<ul style="list-style-type: none">· Monochrome staining Technique· Colony Morphology on Selective Media· ITS region sequencing for identification	Permanent
66	Category: Biological and Clinical Properties Subcategory: Mycology	Candida albicans	<ul style="list-style-type: none">· Microscopic observation· Morphological colony characteristic on selective plate· ITS sequence homology > 98%	<ul style="list-style-type: none">· Monochrome staining Technique· Colony Morphology on Selective Media· ITS region sequencing for identification	Permanent
67	Category: Biological and Clinical Properties Subcategory: Mycology	Fusarium oxysporum	<ul style="list-style-type: none">· Microscopic observation· Morphological colony characteristic on selective plate· ITS sequence homology > 98%	<ul style="list-style-type: none">· Monochrome staining Technique· Colony Morphology on Selective Media· ITS region sequencing for identification	Permanent



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