

## Microbiology Job Oriented Training Program

The Microbiology Job Oriented Training Program is designed to provide participants with hands-on experience and career-ready skills in key microbiology fields, preparing them for immediate roles in the microbiology sector.

**Note: Below modules are designed keeping high end industrial professionals into consideration. Please refer individual protocols below for affordable prices.**

### Medical Microbiology

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Antimicrobial Susceptibility Testing for Pathogens
- Molecular Identification Techniques for Pathogens
- Host-Pathogen Interaction Assays
- Pathogen Detection in Clinical Samples
- Preparation of Diagnostic Media and Reagents
- Protocol for Serological Testing for Infectious Diseases
- Bacterial and Viral Culture Techniques
- Detection of Fungal Pathogens in Clinical Samples
- Use of PCR for Pathogen Identification
- Protocol for Quantification of Pathogenic Bacteria
- Techniques for Viral RNA Extraction and Amplification
- Protocol for Host Immune Response Analysis
- Toxicity Testing of Pathogenic Bacterial Strains
- Handling and Disposal of Infectious Samples

### Industrial Microbiology

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Scale-Up Techniques for Industrial Microbes
- Protocol for Bioreactor Operation and Maintenance
- Downstream Processing for Product Recovery
- Quality Control in Microbial Production

- Enzyme Production and Purification Methods
- Assay Development for Industrial Microbes
- Screening for Microbial Strain Improvement
- Microbial Stability Testing for Industrial Applications
- Sterilization Techniques in Industrial Settings
- Waste Management and Bioremediation
- Protocol for Biofilm Control in Industrial Systems
- Application of Recombinant DNA Technology
- Protocol for Detection of Contaminants in Production
- Process Validation for Industrial Fermentation

## **Environmental Microbiology**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Soil Microbial Community Analysis
- Bioremediation of Pollutants Using Microbes
- Protocol for Microbial Diversity in Ecosystems
- Heavy Metal Resistance in Environmental Microbes
- Detection of Environmental Pathogens
- Protocols for Organic Matter Decomposition
- Microbial Analysis in Aquatic Environments
- Protocol for Biofilm Formation and Analysis
- Isolation of Nitrogen-Fixing Bacteria
- Screening for Oil-Degrading Microorganisms
- Protocol for Microbial Ecosystem Simulation
- Evaluation of Microbial Bioremediation Efficiency
- Isolation of Acidophilic and Alkaliphilic Microbes
- Protocol for Detection of Waterborne Pathogens

## **Pharmaceutical Microbiology**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Antibiotic Potency Testing and Evaluation
- Endotoxin Testing for Pharmaceutical Safety
- Protocol for Bioburden Testing
- Microbial Limit Test for Pharmaceuticals
- Assay Development for Antibacterial Compounds
- Preservative Efficacy Testing for Formulations
- Microbial Contamination Detection in Drugs

- Protocol for Environmental Monitoring in Pharma Labs
- Quality Control for Vaccine Production
- Protocol for Mycoplasma Detection in Cell Cultures
- Screening for Contaminant Microorganisms
- Protocol for Microbial Identification Using MALDI-TOF
- Protocol for Virus Filtration Validation
- Testing for Biofilm Formation on Medical Devices

## **Food Microbiology**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Protocol for Pathogen Detection in Food Samples
- Quality Control and Microbial Load Testing
- Isolation and Identification of Spoilage Organisms
- Protocol for Enumeration of Lactic Acid Bacteria
- Testing for Salmonella and E. coli in Food Products
- Shelf Life Analysis in Food Microbiology
- Protocol for Detection of Foodborne Pathogens
- Testing for Mycotoxins in Food Samples
- Protocol for Fermentation in Dairy Products
- Use of PCR in Foodborne Pathogen Identification
- Rapid Detection of Food Spoilage Microbes
- Probiotic Testing for Food Industry Applications
- Protocol for Food Preservative Efficacy Testing
- Detection of Antibiotic Residues in Food

## **Agricultural Microbiology**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Protocol for Nitrogen Fixation Efficiency Testing
- Soil Microbiome Analysis for Crop Health
- Protocol for Biopesticide Development Using Microbes
- Isolation of Biofertilizer Microorganisms
- Screening for Pathogens in Agricultural Samples
- Testing of Microbial Inoculants in Soil
- Evaluation of Microbial Pesticide Efficacy
- Assay for Plant Growth Promotion by Microbes
- Testing for Pathogenic Fungi in Agriculture
- Protocol for Endophyte Isolation from Crops

- Protocol for Phosphate Solubilization by Soil Bacteria
- Testing of Microbial Antagonists Against Pests
- Screening of Soil Enzymes in Crop Rhizosphere
- Analysis of Soil Organic Matter Decomposition

## **Biotechnology and Genetic Engineering**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- CRISPR-Cas9 Gene Editing in Microorganisms
- Transformation of Microbial Cells Using Plasmids
- Expression and Purification of Recombinant Proteins
- Protocol for DNA Sequencing and Analysis
- Polymerase Chain Reaction (PCR) in Genetic Studies
- Protocol for Site-Directed Mutagenesis
- DNA and RNA Extraction in Microbial Samples
- Transcription and Translation Analysis
- Protocol for Creating Knockout Mutants
- Recombinant DNA Technology for Gene Expression
- Protocol for Gene Mapping in Microbes
- Introduction of Genetic Markers for Selection
- Protein Expression Studies in Bacterial Systems
- Development of Biosensors Using Genetic Engineering

## **Clinical Microbiology**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Rapid Detection of Drug-Resistant Bacteria
- Antibiotic Susceptibility Testing by E-Test
- Detection of Nosocomial Infections
- Screening for Respiratory Pathogens
- Protocol for Identification of Enteric Pathogens
- Isolation and Identification of Yeasts in Clinical Samples
- Protocol for Detection of Viral Infections
- Protocol for Mycobacterial Culture and Identification
- Quantitative PCR for Pathogen Detection
- Serological Assays for Infectious Diseases
- Rapid Antigen Testing for Clinical Diagnosis
- Molecular Testing for Fungal Infections
- Isolation of Pathogens from Blood and Body Fluids

- Testing for Multidrug-Resistant Organisms

## **Veterinary Microbiology**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Antimicrobial Susceptibility Testing in Animal Samples
- Protocol for Zoonotic Pathogen Detection
- Fecal Sample Testing for Enteric Pathogens
- Screening for Veterinary Mycobacteria
- Detection of Viruses in Animal Samples
- Microbial Culture for Veterinary Diagnosis
- Protocol for Serological Testing in Veterinary Samples
- Antibody Detection in Animal Blood Samples
- Protocol for Vaccine Efficacy Testing in Animals
- Pathogen Identification in Animal Respiratory Samples
- Protocol for Antibiotic Residue Detection in Livestock
- Testing for Endoparasites in Livestock
- Protocol for Isolation of Veterinary Mycoplasma
- Screening for Bacterial Infections in Poultry

## **Water Microbiology**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Protocol for Testing Waterborne Pathogens
- Membrane Filtration for Water Quality Testing
- Enumeration of Microorganisms in Water Samples
- Testing for Legionella in Water Systems
- Assessment of Microbial Contamination in Water
- Protocol for Measuring Biochemical Oxygen Demand
- Detection of Cyanobacteria in Aquatic Environments
- Screening for Heavy Metal Tolerance in Water Microbes
- Biofilm Analysis in Water Distribution Systems
- Protocol for Testing for Antibiotic-Resistant Bacteria
- Protocol for Pathogen Detection in Sewage
- Use of PCR for Detection of Waterborne Viruses
- Isolation of Iron and Sulfur Bacteria from Water
- Testing for Fecal Coliforms in Water Sources

## Individual Protocols Under Microbiology Job Oriented Training Program

1. Protocol for Blood Culture and Pathogen Isolation | **Fee: Contact for fee**
2. Antimicrobial Susceptibility Testing for Pathogens | **Fee: Contact for fee**
3. Molecular Identification Techniques for Pathogens | **Fee: Contact for fee**
4. Host-Pathogen Interaction Assays | **Fee: Contact for fee**
5. Pathogen Detection in Clinical Samples | **Fee: Contact for fee**
6. Preparation of Diagnostic Media and Reagents | **Fee: Contact for fee**
7. Protocol for Serological Testing for Infectious Diseases | **Fee: Contact for fee**
8. Bacterial and Viral Culture Techniques | **Fee: Contact for fee**
9. Detection of Fungal Pathogens in Clinical Samples | **Fee: Contact for fee**
10. Use of PCR for Pathogen Identification | **Fee: Contact for fee**
11. Protocol for Quantification of Pathogenic Bacteria | **Fee: Contact for fee**
12. Techniques for Viral RNA Extraction and Amplification | **Fee: Contact for fee**
13. Protocol for Host Immune Response Analysis | **Fee: Contact for fee**
14. Toxicity Testing of Pathogenic Bacterial Strains | **Fee: Contact for fee**
15. Handling and Disposal of Infectious Samples | **Fee: Contact for fee**
16. Fermentation Process Optimization Protocol | **Fee: Contact for fee**
17. Scale-Up Techniques for Industrial Microbes | **Fee: Contact for fee**
18. Protocol for Bioreactor Operation and Maintenance | **Fee: Contact for fee**
19. Downstream Processing for Product Recovery | **Fee: Contact for fee**
20. Quality Control in Microbial Production | **Fee: Contact for fee**
21. Enzyme Production and Purification Methods | **Fee: Contact for fee**
22. Assay Development for Industrial Microbes | **Fee: Contact for fee**
23. Screening for Microbial Strain Improvement | **Fee: Contact for fee**
24. Microbial Stability Testing for Industrial Applications | **Fee: Contact for fee**
25. Sterilization Techniques in Industrial Settings | **Fee: Contact for fee**
26. Waste Management and Bioremediation | **Fee: Contact for fee**
27. Protocol for Biofilm Control in Industrial Systems | **Fee: Contact for fee**
28. Application of Recombinant DNA Technology | **Fee: Contact for fee**
29. Protocol for Detection of Contaminants in Production | **Fee: Contact for fee**
30. Process Validation for Industrial Fermentation | **Fee: Contact for fee**
31. Water Quality Testing for Microbial Contaminants | **Fee: Contact for fee**
32. Soil Microbial Community Analysis | **Fee: Contact for fee**
33. Bioremediation of Pollutants Using Microbes | **Fee: Contact for fee**
34. Protocol for Microbial Diversity in Ecosystems | **Fee: Contact for fee**
35. Heavy Metal Resistance in Environmental Microbes | **Fee: Contact for fee**
36. Detection of Environmental Pathogens | **Fee: Contact for fee**
37. Protocols for Organic Matter Decomposition | **Fee: Contact for fee**
38. Microbial Analysis in Aquatic Environments | **Fee: Contact for fee**
39. Protocol for Biofilm Formation and Analysis | **Fee: Contact for fee**
40. Isolation of Nitrogen-Fixing Bacteria | **Fee: Contact for fee**
41. Screening for Oil-Degrading Microorganisms | **Fee: Contact for fee**

42. Protocol for Microbial Ecosystem Simulation | **Fee: Contact for fee**
43. Evaluation of Microbial Bioremediation Efficiency | **Fee: Contact for fee**
44. Isolation of Acidophilic and Alkaliphilic Microbes | **Fee: Contact for fee**
45. Protocol for Detection of Waterborne Pathogens | **Fee: Contact for fee**
46. Sterility Testing Protocols for Pharmaceutical Products | **Fee: Contact for fee**
47. Antibiotic Potency Testing and Evaluation | **Fee: Contact for fee**
48. Endotoxin Testing for Pharmaceutical Safety | **Fee: Contact for fee**
49. Protocol for Bioburden Testing | **Fee: Contact for fee**
50. Microbial Limit Test for Pharmaceuticals | **Fee: Contact for fee**
51. Assay Development for Antibacterial Compounds | **Fee: Contact for fee**
52. Preservative Efficacy Testing for Formulations | **Fee: Contact for fee**
53. Microbial Contamination Detection in Drugs | **Fee: Contact for fee**
54. Protocol for Environmental Monitoring in Pharma Labs | **Fee: Contact for fee**
55. Quality Control for Vaccine Production | **Fee: Contact for fee**
56. Protocol for Mycoplasma Detection in Cell Cultures | **Fee: Contact for fee**
57. Screening for Contaminant Microorganisms | **Fee: Contact for fee**
58. Protocol for Microbial Identification Using MALDI-TOF | **Fee: Contact for fee**
59. Protocol for Virus Filtration Validation | **Fee: Contact for fee**
60. Testing for Biofilm Formation on Medical Devices | **Fee: Contact for fee**
61. Microbial Testing in Food Safety Analysis | **Fee: Contact for fee**
62. Protocol for Pathogen Detection in Food Samples | **Fee: Contact for fee**
63. Quality Control and Microbial Load Testing | **Fee: Contact for fee**
64. Isolation and Identification of Spoilage Organisms | **Fee: Contact for fee**
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67. Shelf Life Analysis in Food Microbiology | **Fee: Contact for fee**
68. Protocol for Detection of Foodborne Pathogens | **Fee: Contact for fee**
69. Testing for Mycotoxins in Food Samples | **Fee: Contact for fee**
70. Protocol for Fermentation in Dairy Products | **Fee: Contact for fee**
71. Use of PCR in Foodborne Pathogen Identification | **Fee: Contact for fee**
72. Rapid Detection of Food Spoilage Microbes | **Fee: Contact for fee**
73. Probiotic Testing for Food Industry Applications | **Fee: Contact for fee**
74. Protocol for Food Preservative Efficacy Testing | **Fee: Contact for fee**
75. Detection of Antibiotic Residues in Food | **Fee: Contact for fee**
76. Isolation of Plant Growth-Promoting Rhizobacteria | **Fee: Contact for fee**
77. Protocol for Nitrogen Fixation Efficiency Testing | **Fee: Contact for fee**
78. Soil Microbiome Analysis for Crop Health | **Fee: Contact for fee**
79. Protocol for Biopesticide Development Using Microbes | **Fee: Contact for fee**
80. Isolation of Biofertilizer Microorganisms | **Fee: Contact for fee**
81. Screening for Pathogens in Agricultural Samples | **Fee: Contact for fee**
82. Testing of Microbial Inoculants in Soil | **Fee: Contact for fee**
83. Evaluation of Microbial Pesticide Efficacy | **Fee: Contact for fee**
84. Assay for Plant Growth Promotion by Microbes | **Fee: Contact for fee**
85. Testing for Pathogenic Fungi in Agriculture | **Fee: Contact for fee**
86. Protocol for Endophyte Isolation from Crops | **Fee: Contact for fee**



87. Protocol for Phosphate Solubilization by Soil Bacteria | **Fee: Contact for fee**
88. Testing of Microbial Antagonists Against Pests | **Fee: Contact for fee**
89. Screening of Soil Enzymes in Crop Rhizosphere | **Fee: Contact for fee**
90. Analysis of Soil Organic Matter Decomposition | **Fee: Contact for fee**
91. Protocol for Gene Cloning in Bacteria | **Fee: Contact for fee**
92. CRISPR-Cas9 Gene Editing in Microorganisms | **Fee: Contact for fee**
93. Transformation of Microbial Cells Using Plasmids | **Fee: Contact for fee**
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99. Transcription and Translation Analysis | **Fee: Contact for fee**
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105. Development of Biosensors Using Genetic Engineering | **Fee: Contact for fee**
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110. Screening for Respiratory Pathogens | **Fee: Contact for fee**
111. Protocol for Identification of Enteric Pathogens | **Fee: Contact for fee**
112. Isolation and Identification of Yeasts in Clinical Samples | **Fee: Contact for fee**
113. Protocol for Detection of Viral Infections | **Fee: Contact for fee**
114. Protocol for Mycobacterial Culture and Identification | **Fee: Contact for fee**
115. Quantitative PCR for Pathogen Detection | **Fee: Contact for fee**
116. Serological Assays for Infectious Diseases | **Fee: Contact for fee**
117. Rapid Antigen Testing for Clinical Diagnosis | **Fee: Contact for fee**
118. Molecular Testing for Fungal Infections | **Fee: Contact for fee**
119. Isolation of Pathogens from Blood and Body Fluids | **Fee: Contact for fee**
120. Testing for Multidrug-Resistant Organisms | **Fee: Contact for fee**
121. Isolation and Identification of Animal Pathogens | **Fee: Contact for fee**
122. Antimicrobial Susceptibility Testing in Animal Samples | **Fee: Contact for fee**
123. Protocol for Zoonotic Pathogen Detection | **Fee: Contact for fee**
124. Fecal Sample Testing for Enteric Pathogens | **Fee: Contact for fee**
125. Screening for Veterinary Mycobacteria | **Fee: Contact for fee**
126. Detection of Viruses in Animal Samples | **Fee: Contact for fee**
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129. Antibody Detection in Animal Blood Samples | **Fee: Contact for fee**
130. Protocol for Vaccine Efficacy Testing in Animals | **Fee: Contact for fee**
131. Pathogen Identification in Animal Respiratory Samples | **Fee: Contact for fee**



- 132. Protocol for Antibiotic Residue Detection in Livestock | **Fee: Contact for fee**
- 133. Testing for Endoparasites in Livestock | **Fee: Contact for fee**
- 134. Protocol for Isolation of Veterinary Mycoplasma | **Fee: Contact for fee**
- 135. Screening for Bacterial Infections in Poultry | **Fee: Contact for fee**
- 136. Detection of Coliforms in Drinking Water | **Fee: Contact for fee**
- 137. Protocol for Testing Waterborne Pathogens | **Fee: Contact for fee**
- 138. Membrane Filtration for Water Quality Testing | **Fee: Contact for fee**
- 139. Enumeration of Microorganisms in Water Samples | **Fee: Contact for fee**
- 140. Testing for Legionella in Water Systems | **Fee: Contact for fee**
- 141. Assessment of Microbial Contamination in Water | **Fee: Contact for fee**
- 142. Protocol for Measuring Biochemical Oxygen Demand | **Fee: Contact for fee**
- 143. Detection of Cyanobacteria in Aquatic Environments | **Fee: Contact for fee**
- 144. Screening for Heavy Metal Tolerance in Water Microbes | **Fee: Contact for fee**
- 145. Biofilm Analysis in Water Distribution Systems | **Fee: Contact for fee**
- 146. Protocol for Testing for Antibiotic-Resistant Bacteria | **Fee: Contact for fee**
- 147. Protocol for Pathogen Detection in Sewage | **Fee: Contact for fee**
- 148. Use of PCR for Detection of Waterborne Viruses | **Fee: Contact for fee**
- 149. Isolation of Iron and Sulfur Bacteria from Water | **Fee: Contact for fee**
- 150. Testing for Fecal Coliforms in Water Sources | **Fee: Contact for fee**

**Please contact on +91-8977624748 for more details**

Cant Come to Hyderabad? No Problem, You can do it in Virtual / Online Mode