

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 6888 — Microbiology Coagulase-Positive Staphylococci

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference FGA-MCB-6888 • ISO Food & Agriculture

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AT A GLANCE

REFERENCE	FGA-MCB-6888
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Data Analysis and Interpretation

5 chapters · 30 classes 65 marks

• 1 Understanding Coagulase-Positive Staphylococci in Food Microbiology — 6 classes

› 1.1 Identify Coagulase-Positive Staphylococci Characteristics

› 1.2 Explore the Role of Coagulase-Positive Staphylococci in Food Safety

› 1.3 Analyze Sample Collection Methods for Coagulase-Positive Staphylococci

› 1.4 Examine Laboratory Methods for Detecting Coagulase-Positive Staphylococci

› 1.5 Interpret Results of Coagulase-Positive Staphylococci Testing

› 1.6 Apply Findings to Develop Food Safety Management Practices

• 2 Data Collection Techniques for Microbiological Analysis — 6 classes

› 2.1 Identify Key Data Collection Techniques in Microbiology

› 2.2 Explore Methods for Sampling Coagulase-Positive Staphylococci

› 2.3 Analyze Matrices for Effective Microbiological Data Collection

› 2.4 Evaluate the Importance of Sterilization in Data Accuracy

› 2.5 Discuss Ethical Considerations in Microbiological Data Collection

› 2.6 Apply Data Collection Techniques to Real-World Scenarios in Analysis

• 3 Statistical Methods for Analyzing Microbiological Data — 6 classes

› 3.1 Identify Key Statistical Concepts in Microbiology

› 3.2 Collect Microbiological Data for Analysis

› 3.3 Apply Descriptive Statistics to Microbial Counts

› 3.4 Utilize Inferential Statistics for Microbiological Data Interpretation

› 3.5 Interpret Statistical Results in a Microbiological Context

› 3.6 Present Findings and Recommendations Based on Statistical Analysis

• 4 Interpreting Results in the Context of Food Safety Standards — 6 classes

› 4.1 Analyze the Role of Coagulase-Positive Staphylococci in Food Safety

› 4.2 Identify Key Food Safety Standards Relevant to Microbial Testing

› 4.3 Interpret Microbial Test Results in Compliance with ISO 6888

› 4.4 Evaluate the Impact of Positive Results on Food Safety Practices

› 4.5 Apply Data Analysis Techniques to Assess Risk Levels

› 4.6 Develop Action Plans Based on Interpretation of Test Results

• 5 Advanced Techniques in Data Visualization for Microbiological Research — 6 classes

› 5.1 Analyze Data Trends in Coagulase-Positive Staphylococci Research

› 5.2 Visualize Microbial Growth Patterns Using Advanced Graphs

› 5.3 Implement Interactive Dashboards for Real-Time Data Analysis

› 5.4 Integrate Statistical Tools for Enhanced Data Interpretation

› 5.5 Communicate Findings Through Effective Data Storytelling

› 5.6 Apply Data Visualization Techniques in Peer-reviewed Presentations

• 1 Understanding Coagulase-Positive Staphylococci in Food Safety

— 6 classes

- › 1.1 Identify Coagulase-Positive Staphylococci and Their Characteristics
- › 1.2 Understand the Role of Coagulase-Positive Staphylococci in Food Safety
- › 1.3 Analyze Common Sources of Coagulase-Positive Staphylococci in Food Production
- › 1.4 Explore Transmission Pathways of Coagulase-Positive Staphylococci Contamination
- › 1.5 Evaluate Control Measures for Reducing Coagulase-Positive Staphylococci in Food Handling
- › 1.6 Develop a Food Safety Management Plan Addressing Coagulase-Positive Staphylococci Risks

• 2 ISO 6888 Standards and Testing Methodologies — 6 classes

- › 2.1 Understand ISO 6888 Standards for Microbiology Testing
- › 2.2 Identify Coagulase-Positive Staphylococci in Food Samples
- › 2.3 Explore Testing Methodologies for Staphylococcus Detection
- › 2.4 Implement Sampling Techniques for Effective Testing
- › 2.5 Analyze Results and Interpret Testing Data
- › 2.6 Develop Action Plans Based on ISO 6888 Testing Outcomes

• 3 Implementing Effective Food Safety Management Systems — 6 classes

- › 3.1 Identify Key Components of Food Safety Management Systems
- › 3.2 Assess Risk Factors in Food Safety Practices
- › 3.3 Develop Standard Operating Procedures for Safe Food Handling
- › 3.4 Implement Monitoring and Verification Techniques
- › 3.5 Conduct Training for Staff on Food Safety Standards
- › 3.6 Evaluate and Improve Food Safety Management Systems

• 4 Risk Assessment and Control Measures for Staphylococci — 6 classes

- › 4.1 Identify Sources of Coagulase-Positive Staphylococci in Food
- › 4.2 Analyze the Growth Conditions Favoring Staphylococci Proliferation
- › 4.3 Assess Potential Risks of Staphylococci Contamination in Food Products
- › 4.4 Develop Control Measures for Preventing Staphylococci Growth
- › 4.5 Implement Monitoring Systems for Staphylococci Control in Food Safety Management
- › 4.6 Evaluate the Effectiveness of Control Measures against Staphylococci

• 5 Continuous Improvement and Compliance in Food Safety Practices — 6 classes

- › 5.1 Assess Current Food Safety Practices
- › 5.2 Identify Key Compliance Risks
- › 5.3 Develop Continuous Improvement Strategies
- › 5.4 Implement Monitoring and Evaluation Techniques
- › 5.5 Train Staff on Best Practices for Compliance
- › 5.6 Review and Revise Food Safety Management Systems

• 1 Fundamentals of Coagulase-Positive Staphylococci and Their Properties — 6 classes

- › 1.1 Identify Key Characteristics of Coagulase-Positive Staphylococci
- › 1.2 Explain the Role of Coagulase in Microbial Identification
- › 1.3 Analyze the Metabolic Properties of Coagulase-Positive Staphylococci
- › 1.4 Compare and Contrast Coagulase-Positive and Coagulase-Negative Staphylococci
- › 1.5 Explore Clinical Significance and Pathogenicity of Coagulase-Positive Staphylococci
- › 1.6 Implement Safety Practices for Handling Coagulase-Positive Staphylococci in the Lab

• 2 Pathogenic Mechanisms and Clinical Significance — 6 classes

- › 2.1 Identify Key Characteristics of Coagulase-Positive Staphylococci
- › 2.2 Explain Pathogenic Mechanisms of Coagulase-Positive Staphylococci
- › 2.3 Discuss Common Infections Caused by Coagulase-Positive Staphylococci
- › 2.4 Analyze Virulence Factors in Clinical Context
- › 2.5 Assess Diagnostic Methods for Coagulase-Positive Staphylococci
- › 2.6 Evaluate Treatment Options and Prevention Strategies

• 3 Isolation and Identification Techniques in Food Microbiology — 6 classes

- › 3.1 Explore the Characteristics of Coagulase-Positive Staphylococci
- › 3.2 Understand the Importance of Isolation Techniques in Food Microbiology
- › 3.3 Demonstrate the Use of Selective Media for Isolation
- › 3.4 Apply Incubation Techniques for Optimal Growth Conditions
- › 3.5 Identify Coagulase-Positive Staphylococci Through Biochemical Tests
- › 3.6 Evaluate Results and Confirm Identification of Isolates

• 4 Risk Assessment and Management in Food Production — 6 classes

- › 4.1 Identify Coagulase-Positive Staphylococci in Food Samples
- › 4.2 Understand the Risk Factors Associated with Coagulase-Positive Staphylococci
- › 4.3 Analyze the Importance of Risk Assessment in Food Safety
- › 4.4 Evaluate Control Measures for Managing Coagulase-Positive Staphylococci
- › 4.5 Develop a Risk Management Plan for Food Production
- › 4.6 Implement Best Practices to Prevent Coagulase-Positive Staphylococci Contamination

• 5 Regulatory Standards and Compliance for Coagulase-Positive Staphylococci — 6 classes

- › 5.1 Understand Regulatory Standards for Coagulase-Positive Staphylococci
- › 5.2 Identify Key Compliance Requirements in ISO 6888
- › 5.3 Evaluate the Importance of Coagulase Testing in Microbiology
- › 5.4 Analyze Regulatory Implications for Food Safety and Quality
- › 5.5 Develop Protocols for Effective Compliance Monitoring
- › 5.6 Implement Best Practices for Quality Assurance in Microbiology Testing

• 1 Understanding Coagulase-Positive Staphylococci:**Characteristics and Importance** — 6 classes

- › 1.1 Identify Key Characteristics of Coagulase-Positive Staphylococci
- › 1.2 Explain the Role of Coagulase in Bacterial Identification
- › 1.3 Discuss the Clinical Significance of Coagulase-Positive Staphylococci
- › 1.4 Analyze Common Testing Methods for Coagulase-Positive Staphylococci
- › 1.5 Evaluate the Impact of Coagulase-Positive Staphylococci in Food Safety
- › 1.6 Apply ISO 6888 Standards to Real-World Microbial Testing Scenarios

• 2 ISO 6888 Standards: Overview and Framework — 6 classes

- › 2.1 Understand ISO 6888 Standards and Their Importance in Microbiology
- › 2.2 Identify Coagulase-Positive Staphylococci and Their Characteristics
- › 2.3 Explore the Framework of ISO 6888 Protocols for Testing
- › 2.4 Analyze the Steps Involved in ISO 6888 Certification Process
- › 2.5 Apply ISO 6888 Standards to Practical Laboratory Scenarios
- › 2.6 Evaluate the Impact of ISO 6888 on Quality Control in Microbiology

• 3 Sampling Techniques and Procedural Compliance — 6 classes

- › 3.1 Identify Key Sampling Techniques for Coagulase-Positive Staphylococci
- › 3.2 Compare and Contrast Different Protocols for Sample Collection
- › 3.3 Implement Best Practices for Aseptic Sampling Procedures
- › 3.4 Evaluate the Impact of Environmental Factors on Sampling Results
- › 3.5 Analyze Compliance with ISO 6888 Standards During Sampling
- › 3.6 Develop a Sampling Strategy for Ensuring Procedural Integrity

• 4 Laboratory Methods for Detection and Enumeration — 6 classes

- › 4.1 Identify Key Laboratory Techniques for Coagulase-Positive Staphylococci Detection
- › 4.2 Understand the ISO 6888 Protocol Requirements
- › 4.3 Prepare Sample Cultures for Effective Enumeration
- › 4.4 Conduct Microscopic Examination of Cultured Samples
- › 4.5 Apply Colony Counting Methods for Bacterial Enumeration
- › 4.6 Evaluate Results and Ensure Compliance with ISO Standards

• 5 Quality Control and Interpretation of Results — 6 classes

- › 5.1 Analyze Quality Control Measures in ISO 6888
- › 5.2 Interpret Result Patterns in Coagulase-Positive Staphylococci Testing
- › 5.3 Identify Common Sources of Error in Microbial Testing
- › 5.4 Evaluate the Impact of Control Strains on Test Validity
- › 5.5 Implement Corrective Actions for Quality Control Failures
- › 5.6 Document and Report Quality Control Findings Effectively

• 1 Fundamentals of Microbiological Testing for Coagulase-Positive Staphylococci — 6 classes

- › 1.1 Identify Coagulase-Positive Staphylococci: Characteristics and Significance
- › 1.2 Explore ISO 6888 Standards: Understanding the Certification Process
- › 1.3 Compare Testing Techniques: Methods for Isolating Staphylococci
- › 1.4 Conduct a Hands-On Culture Test: Isolating Coagulase-Positive Staphylococci
- › 1.5 Analyze Test Results: Interpreting the Presence of Staphylococci
- › 1.6 Implement Quality Control Measures: Ensuring Accuracy in Microbiological Testing

• 2 Sampling Techniques and Strategies for Food Microbiology — 6 classes

- › 2.1 Understand the Importance of Sampling in Food Microbiology
- › 2.2 Identify Different Sampling Techniques for Microbiological Testing
- › 2.3 Evaluate Sampling Strategies for Various Food Types
- › 2.4 Implement Proper Sample Collection Procedures
- › 2.5 Analyze Sample Handling and Storage Methods
- › 2.6 Apply Real-World Sampling Scenarios in Food Safety Assessment

• 3 Isolation and Cultivation of Coagulase-Positive Staphylococci — 6 classes

- › 3.1 Define the Characteristics of Coagulase-Positive Staphylococci
- › 3.2 Discuss the Importance of Isolation in Microbial Testing
- › 3.3 Identify Suitable Media for Cultivating Coagulase-Positive Staphylococci
- › 3.4 Demonstrate the Isolation Techniques for Coagulase-Positive Staphylococci
- › 3.5 Analyze the Growth Patterns of Coagulase-Positive Staphylococci on Different Media
- › 3.6 Evaluate Cultivation Methods for Quality Assurance in Microbial Testing

• 4 Identification Methods for Coagulase-Positive Staphylococci — 6 classes

- › 4.1 Explore the Characteristics of Coagulase-Positive Staphylococci
- › 4.2 Identify Key Testing Techniques for Coagulase-Positive Staphylococci
- › 4.3 Demonstrate the Use of Selective Media in Testing
- › 4.4 Analyze Biochemical Tests for Identification
- › 4.5 Implement Molecular Methods for Accurate Identification
- › 4.6 Evaluate Results and Confirm Identification of Coagulase-Positive Staphylococci

• 5 Application of ISO 6888 in Food Microbiology Testing — 6 classes

- › 5.1 Understand the Importance of Coagulase-Positive Staphylococci in Food Safety
- › 5.2 Explore the ISO 6888 Standard and Its Objectives in Microbiology Testing
- › 5.3 Identify Sample Preparation Techniques for Testing Coagulase-Positive Staphylococci
- › 5.4 Implement Testing Procedures for Coagulase-Positive Staphylococci as per ISO 6888
- › 5.5 Analyze Results from Microbiological Testing of Food Samples
- › 5.6 Develop Corrective Actions Based on ISO 6888 Testing Findings

• 1 Understanding Coagulase-Positive Staphylococci in Food Safety

— 6 classes

- › 1.1 Identify Coagulase-Positive Staphylococci in Food Products
- › 1.2 Assess Risks Associated with Coagulase-Positive Staphylococci in Food Safety
- › 1.3 Evaluate the Impact of Coagulase-Positive Staphylococci on Public Health
- › 1.4 Implement Control Measures for Coagulase-Positive Staphylococci in Food Handling
- › 1.5 Monitor Compliance with ISO 6888 Standards for Food Safety
- › 1.6 Develop a Risk Management Plan for Coagulase-Positive Staphylococci in Food Operations

• 2 Identifying Hazards Related to Coagulase-Positive Staphylococci

— 6 classes

- › 2.1 Identify Coagulase-Positive Staphylococci in Clinical Samples
- › 2.2 Analyze the Growth Environment of Coagulase-Positive Staphylococci
- › 2.3 Describe Transmission Pathways for Coagulase-Positive Staphylococci
- › 2.4 Evaluate Risks Associated with Coagulase-Positive Staphylococci in Food Safety
- › 2.5 Develop Risk Mitigation Strategies for Coagulase-Positive Staphylococci
- › 2.6 Implement Monitoring Procedures for Coagulase-Positive Staphylococci Contamination

• 3 Risk Assessment Methodologies for Microbial Contaminants — 6

classes

- › 3.1 Identify Key Microbial Contaminants in Risk Assessment
- › 3.2 Analyze Impact of Coagulase-Positive Staphylococci in Food Safety
- › 3.3 Evaluate Risk Assessment Methodologies for Microbial Pathogens
- › 3.4 Apply Quantitative Risk Analysis Techniques to Microbial Contamination
- › 3.5 Develop Effective Risk Management Strategies for Microbial Hazards
- › 3.6 Review Case Studies on Risk Assessment Outcomes in Microbiology

• 4 Implementation of Risk Management Strategies — 6 classes

- › 4.1 Identify Key Risks Associated with Coagulase-Positive Staphylococci
- › 4.2 Analyze Risk Factors in Microbiological Testing Environments
- › 4.3 Develop Risk Mitigation Strategies for Laboratory Practices
- › 4.4 Implement Monitoring Techniques for Risk Management
- › 4.5 Evaluate the Effectiveness of Risk Management Strategies
- › 4.6 Communicate Risk Assessment Findings to Stakeholders

• 5 Monitoring and Reviewing Risk Management Plans — 6 classes

- › 5.1 Identify Key Elements of Risk Management Plans
- › 5.2 Analyze Current Risk Management Practices
- › 5.3 Establish Monitoring Criteria for Risks
- › 5.4 Implement Effective Review Procedures
- › 5.5 Evaluate Outcomes of Risk Management Strategies
- › 5.6 Develop Action Plans for Continuous Improvement