Diagnostic Applications of Aero Microbiology

Aero microbiology has the potential to offer various diagnostic applications across different disease segments.

Airborne Pathogen Detection

Rapid identification of respiratory pathogens in indoor air to monitor disease outbreaks.
2.

Tuberculosis Screening

Developing sensitive tests for detecting airborne TB transmission in crowded settings.
4.

Infectious Diseases

5.

Influenza Surveillance

Real-time monitoring of indoor air for early detection of flu outbreaks.
7.

Vaccine Efficacy Assessment

Assessing the presence of airborne pathogens to evaluate vaccine efficacy.

Allergy Testing

Identifying specific airborne allergens responsible for allergic reactions.
10.

Immunodeficiency Screening

Monitoring indoor air for immunodeficiency-associated pathogens.

Malaria Surveillance

Detecting airborne vectors and pathogens responsible for malaria transmission.
13.

Lyme Disease Assessment

Identifying the presence of infected ticks and pathogens in the air.

Foodborne Pathogen Detection

Rapid detection of airborne pathogens that may contaminate food.
16.

Dermatological Diseases

17.

Eczema Triggers

Investigating airborne factors that may trigger eczema outbreaks.

Eye Infection Detection

Detecting airborne pathogens that may cause eye infections.
20.

Neurological Diseases

21.

Migraine Triggers

Identifying airborne triggers for migraines.

Heart Disease Risk Assessment

Studying the influence of air quality on cardiovascular health.
24.

Oncology

25.

Cancer Risk Assessment

Assessing indoor air quality and its potential links to cancer risk.

Diagnostic Applications of Aero Microbiology

Urinary Tract Infection Detection

Detecting airborne pathogens associated with urinary tract infections.
28.

Hematology

29.

Hematological Disorder Assessment

Studying the impact of indoor air quality on hematological disorders.

Diabetes Risk Assessment

Investigating potential links between indoor air quality and diabetes risk.
32.

Rheumatology

33.

Inflammatory Disease Links

Studying potential connections between indoor air quality and inflammatory diseases.

Childhood Respiratory Health

Investigating the impact of indoor air quality on child health.
36.

Geriatrics

37.

Dementia Research

Exploring potential links between airborne factors and dementia in the elderly.