Tuberculosis Diagnostic Report

Date : 2025 May 05, 11:08:01

Patient Information :

Individual ID	HN	Sample	Age	Gender	Province
3	-	Blood	-	Other	-

Diagnostic Conclusion :

Model	Positive(%)	Final interp.	Confidence value
1D-CNN	88.06 %	IGRA-positive	2.4

The diagnostic outcome shows a likelihood of Positive. **Probability = 88.06 %**

Positive

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* Note : This preliminary report is intended for research purposes only. Caution is advised when applying it to clinical diagnosis.

* Note : Interferon-Gamma Release Assay (IGRA) - Used as a diagnostic test for latent tuberculosis infection (LTBI).

* Note : 1D-CNN model applied for LTBI prediction based on IGRA results.

Quality Control of Raman Spectra:

Comparison	Number of Features	Number of Spectra	R-squared
Before	1011	49	92.12 %
After	1011	45	93.28 %

* Note: 'Before' represents the original data, whereas 'After' denotes the data after preprocessing.

Meaning of confidence value:

Range	Interpretation	Meaning	Color
2.00 - 3.00	High Confidence	A high confidence level indicates that the model demonstrates strong certainty in its diagnostic prediction	green
1.00 - 1.99	Medium Confidence	A medium confidence level indicates that the model possesses a moderate degree of certainty in its diagnostic prediction	yellow
0.00 - 0.99	Low Confidence	A low confidence level indicates that the model has limited certainty in its diagnostic prediction	orange