

Rapid LAMP Detection Assay for Mpox Virus

Domain: Diagnostics (Assay/Kits)

About Technology: This assay can be used for diagnosis of Monkeypox, where quantitative detection is not necessary. The assay specifically detects two genes of Monkeypox virus (genus specific B6R gene and species specific F3L gene)

Intended Use: The assay will be most preferred for detection of Monkeypox virus and differentiating it from the other members of Orthopoxvirus genus.

Advantages:

- Indigenous and simple, Point-of-care technology can be used in the fields for detection of Monkeypox virus
- Cost effective



Reaction	F3L-4	B6R-4	β -Actin	Observation	Inference
NTC				All the tubes showing -Ve results	Test is valid
Sample DNA A				F3L-4: +Ve B6R-4: +Ve β -Actin: +Ve	Positive for Orthopoxvirus and Monkeypox
Sample DNA B				F3L-4: -Ve B6R-4: +Ve β -Actin: +Ve	Positive for Orthopoxvirus and Negative for Monkeypox
Sample DNA C				F3L-4: -Ve B6R-4: -Ve β -Actin: +Ve	Negative for Orthopoxvirus and Monkeypox
Sample DNA D				F3L-4: +Ve B6R-4: -Ve β -Actin: +Ve	Inconclusive Repeat the test

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Development Status: Test License received

Technology Transfer Status: Transferred to companies on Non-Exclusive basis

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