

FMD Vaccine Matching Strain Differentiation Report

Lab Reference Batch Number: WRLFMD/2025/000018

Date Received: 04/12/2025

Country of Origin*: Egypt

Sender*:

[REDACTED]

[REDACTED]

Number Tested: 2

Diagnostic work has now been completed in respect of the samples you submitted and the details are as attached.

The results relate only to the samples tested and as received. This report shall not be reproduced except in full.

To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratories by email (reporting@pirbright.ac.uk).

Report Number: 13954

FMD Vaccine Matching Strain Differentiation Report - Final

Lab Reference Batch Number: WRLFMD/2025/000018 **Report Date:** 05/02/2026
Report Number: 13954
Date Tests Completed: 22/01/2026 **Country of Origin*:** Egypt

2dm VNT r₁ RESULTS

	A EGY/1/2025	SAT1 EGY/3/2025
A Eritrea 98, Boehringer Ingelheim	0.46, 2.16	
A GVII 2015, Boehringer Ingelheim	0.07, 0.75	
A Iran 05, Boehringer Ingelheim	0.27, 1.93	
A Saudi 95, Boehringer Ingelheim	0.28, 1.85	
A/TUR/20/06, MSD Animal Health	0.10, 1.55	
A2001 Argentina, Biogénesis Bagó	0.31, 2.56	
A22 Iraq, Boehringer Ingelheim	0.33, 1.99	
A24 Cruzeiro, Biogénesis Bagó	0.17, 2.17	
SAT1 Rho 78, Boehringer Ingelheim		0.33, 2.14

Interpretation of Results

For each field isolate the r₁-value is shown followed by the heterologous neutralisation titre (r₁-value, titre)

The r₁-values shown below, represent the one-way serological match between vaccine strain and field isolate, calculated from the comparative reactivity of an antiserum, raised against the vaccine in question, to the vaccine virus and the field isolate.

r₁ greater than 0.3 - suggest that there is a close antigenic relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.

r₁ less than 0.3 - suggest that the field isolate is antigenically different to the vaccine strain. Where there is no alternative, the use of this vaccine should carefully consider vaccine potency, the possibility to use additional booster doses and monitoring of vaccinated animals for heterologous responses.

0 = no neutralisation for the field virus was observed at a virus dose of a 100 TCID₅₀

Heterologous neutralisation titres for the field isolates are included as an indicator of protection.

NOTE: Vaccines from different manufactures may perform differently although the vaccine strains are the same.

NOTE: The Biogénesis Bagó sera is taken 30 days post vaccination. All other sera is taken 21 days post vaccination.

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Notes

1. Vaccine efficacy is influenced by vaccine potency, antigenic match and vaccination regime. Therefore, it is possible that poor antigenic match may be compensated by high potency vaccines and by administering more than one vaccine dose at suitable intervals. Thus, a vaccine with a weak antigenic match to a field isolate, as determined by serology, may nevertheless afford some protection if it is of sufficiently high potency and is administered under a regime to maximise host antibody responses (Brehm, 2008).
2. Vaccine matching data generated in this report only considers antibody responses in cattle after a single vaccination (typically 21 days after vaccination). The long-term performance of FMD vaccines after a second or multiple dose of vaccine should be monitored using post-vaccination serological testing.

Report Authorised By:

[REDACTED]
[REDACTED]

Date: 05/02/2026 09:05:51