

## **INSTITUTE FOR ANIMAL HEALTH**

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# **FMD Vaccine Matching Strain Differentiation Report**

Lab Reference WRL Batch Number:

Lab Reference WKL Batch Number

Sender Details:

Date Received:

**Country of Origin:** 

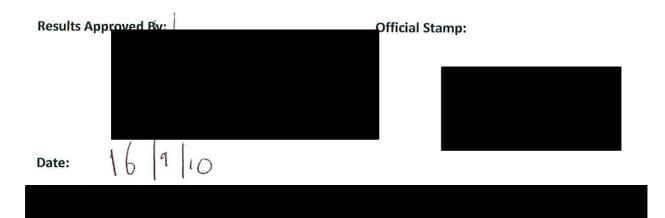
Date Reported:

WRLFMD/2010/00024

26<sup>th</sup> May 2010

Iran

16<sup>th</sup> September 2010



To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by fax (+44 (0) 1483 232621 or email: <a href="mailto:elizabeth.wilson@bbsrc.ac.uk">elizabeth.wilson@bbsrc.ac.uk</a>)

| Report no:     | VNT  |              |                |            |            |            |               |            | LPBE |                  |              |             |             |
|----------------|------|--------------|----------------|------------|------------|------------|---------------|------------|------|------------------|--------------|-------------|-------------|
|                | VNT  | A<br>Eritrea | A Ind<br>17/82 | A<br>Irn87 | A<br>Irn96 | A22<br>Irq | A<br>Sau41/91 | A<br>Tur06 | LPBE | A22 Irq<br>24/64 | A<br>Eritrea | A Irn<br>87 | A Irn<br>99 |
| Field Isolate: |      |              |                |            |            |            |               |            |      |                  |              |             |             |
| A Irn 73/2010  | mean | 0.20         | 0.21           | 0.11       | 0.17       | 0.24       | 0.12          | 0.68       | mean | 0.19             | DNT          | 0.08        | 0.16        |
| A Irn 80/2010  | mean | 0.22         | 0.22           | 0.16       | 0.15       | 0.23       | 0.09          | 0.44       | mean | 0.16             | 0.25         | 0.15        | 0.26        |
| A Irn 125/2010 | mean | 0.08         | 0.09           | 0.05       | 0.05       | 0.24       | 0.27          | 0.68       | mean | 0.25             | 0.06         | 0.05        | DNT         |

#### **Interpretation of Results**

## In the case of Virus Neutralisation Test (VNT):

 $r_1 = \ge 0.3$ . Suggests that there is a close relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.

 $r_1 = < 0.3$ . Suggests that the field isolate is so different from the vaccine strain that the vaccine is unlikely to protect.

ND = Not done.

### In the case of Liquid Phase Blocking Elisa (LPBE):

 $r_1$  = 0.4-1.0. Suggests that there is a close relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.

 $r_1$  = 0.2-0.39, Suggests that the field isolate is antigenically related to the vaccine strain. The vaccine strain might be suitable for use if no closer match can be found provided that a potent vaccine is used and animals are preferably immunised more than once.

 $r_1 = <0.2$ . Suggests that the field isolate is so different from the vaccine strain that the vaccine is unlikely to protect.

DNT = Did not trap.

ND = Not done.