# INSTITUTE FOR ANIMAL HEALTH
Acting Director: Professor Martin W Shirley, PhD

*Acting Head of Laboratory:*
Dr C Oura BVetMed, MSc, PhD MRCVS

**PIRBRIGHT LABORATORY**
**Ash Road, Pirbright**
**Surrey GU24 0NF**
**Tel: Worplesdon 01483 232441**
**Fax: 01483 232448**
**http://www.iah.bbsrc.ac.uk**


# FAX TRANSMISSION

**TO:** [redacted]

**FROM:** [redacted]
Head: WRL for FMD

**DATE:** 3.3.2006

**FAX NO:** [redacted]

**PAGES:** 2

**RE:** Test results

Dear [redacted]

Strain differentiation results for serotype A FMD virus isolates received from Egypt on 19th February 2006.

The following $r_1$ values were recently obtained by ELISA and VNT at the WRL.

| **$r_1$ Values by ELISA** | | | | | | |
|---|---|---|---|---|---|---|
| **Ref. No** | **A22** | **A IRN 96** | **A MAY 97** | **4164** | **IRN 99** | **SAU 95** |
| A EGY 1/06 | 0.17 | Not Tested | 0.06 | <0.17 | 0.21 | 0.42 |
| A EGY 2/06 | 0.14 | Not Tested | <0.03 | 0.25 | 0.23 | 0.50 |
| **$r_1$ Values by VNT** | | | | | | |
| A EGY 1/06 | 0.27 | 0.25 | 0.22 | Not Tested | Not Tested | Not Tested |
| A EGY 2/06 | 0.28 | 0.16 | 0.21 | Not Tested | Not Tested | Not Tested |

Since the best results were obtained with SAU 95 by ELISA, tests are currently being undertaken using SAU 95 for VNT .

**Interpretation of $r_1$ values**

In the case of ELISA:

$r_1$ = 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

In the case of neutralisation:

$r_1$ = $\geq$ 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.

Yours sincerely

[redacted]
**Head: World Reference Laboratory for FMD**

c.c. [redacted]
FAO
OIE