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| Serotype: A | Report date: 03/03/2005 |
| WRL Ref No: LAO/36/2003 | |
| Date collected: 08/12/2003 | |
| Date received by WRLFMD: 22/02/2005 | |
| Date received for sequencing: 25/02/2005 | Topotype: Asia |
| Species: Cattle | Genotype/strain: not designated |
| Material used: BTy1 | Sequence filename: LAO03-36.SEQ |
| Region sequenced: VP1 | Date sequence last updated: 02/03/2005 |
| RT-PCR primers: A-1C562F/NK61;A-1C612F/NK61 | Total no. of comparisons: 783 |
| No. of Nt determined: 636 | Min. no. of nt for comparison: 300 |
| No. of ambiguities: 0 | Total turn-around time: 9 days |
| Gene length: 636 | Sequencing time: 6 days |

Comments: The relationships of this isolate to A/VIT/4/2004 and A/VIT/5/2004 are 98.27% and 98.43%, respectively.

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|---------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | A/MAY/4/2003 | MAY03-04 | 636 | 635 | 0 | 99.84 | 0.16 |
| 2 | A/TAI/2/04* | TAI04-AA | 636 | 633 | 0 | 99.53 | 0.47 |
| 3 | A/TAI/5/2003 | TAI03-05 | 624 | 621 | 0 | 99.52 | 0.48 |
| 4 | A/TAI/7/2003 | TAI03-07 | 636 | 632 | 0 | 99.37 | 0.63 |
| 5 | A/TAI/11/2003 | TAI03-11 | 634 | 630 | 2 | 99.37 | 0.63 |
| 6 | A/TAI/8/04* | TAI04-AC | 636 | 631 | 0 | 99.21 | 0.79 |
| 7 | A/TAI/12/2003 | TAI03-12 | 636 | 631 | 0 | 99.21 | 0.79 |
| 8 | A/TAI/10/2003 | TAI03-10 | 636 | 631 | 0 | 99.21 | 0.79 |
| 9 | A/TAI/8/2003 | TAI03-08 | 631 | 626 | 5 | 99.21 | 0.79 |
| 10 | A/TAI/9/2003 | TAI03-09 | 617 | 612 | 1 | 99.19 | 0.81 |

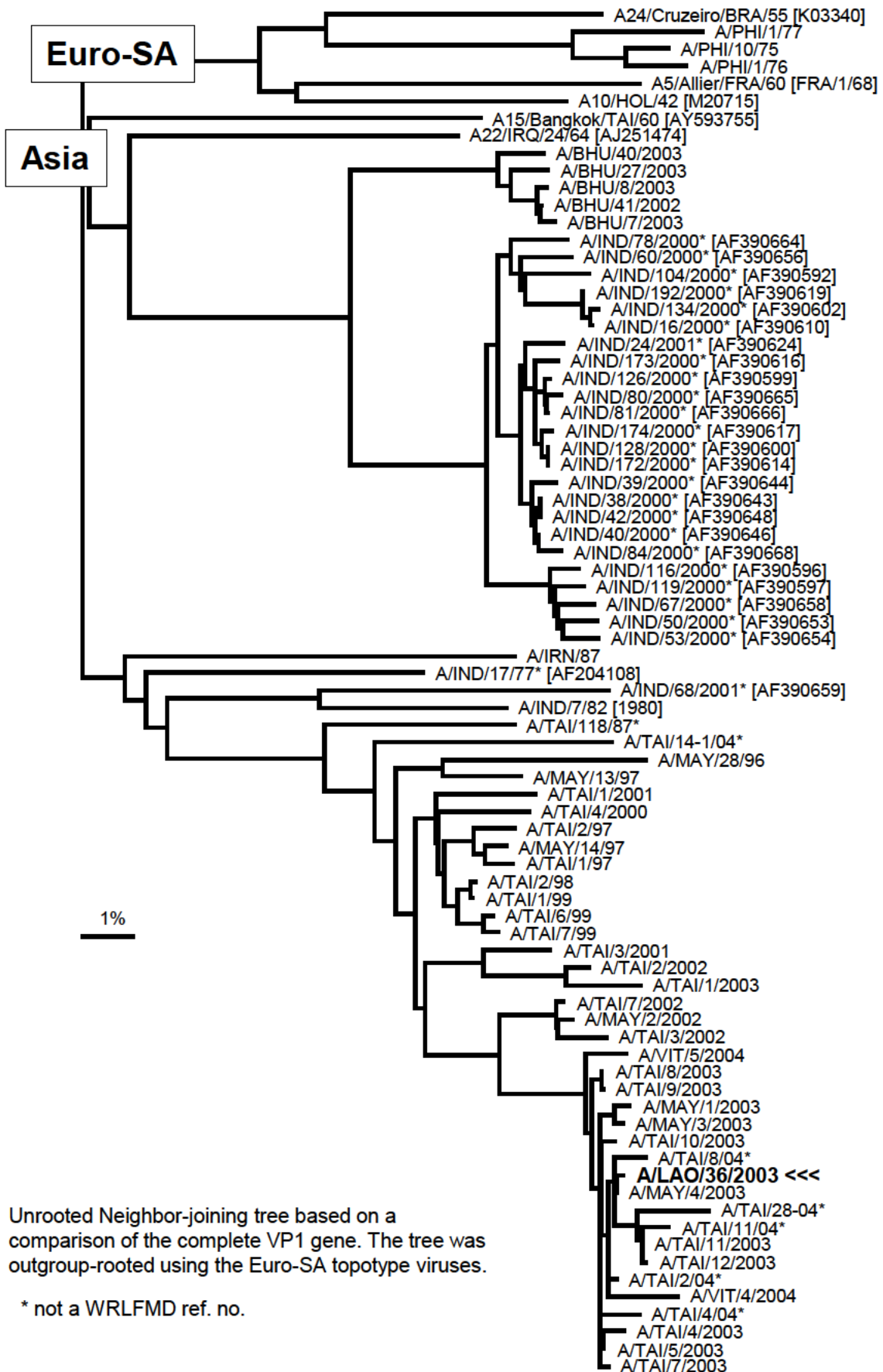
Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|--------------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | A/TAI/2/97 | TAI97-02 | 636 | 596 | 0 | 93.71 | 6.29 |
| 2 | A/TAI/118/87* | TAI87-AD | 636 | 573 | 0 | 90.09 | 9.91 |
| 3 | A/IND/7/82 (1980) | IND82-07 | 636 | 539 | 0 | 84.75 | 15.25 |
| 4 | A/SAU/23/86 | SAU86-23 | 636 | 526 | 0 | 82.7 | 17.3 |
| 5 | A/SAU/41/91 | SAU91-41 | 633 | 522 | 0 | 82.46 | 17.54 |
| 6 | A/IRN/87 | IRN87--M | 634 | 522 | 2 | 82.33 | 17.67 |
| 7 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 636 | 523 | 0 | 82.23 | 17.77 |
| 8 | A/IRN/1/96 | IRN96-01 | 635 | 522 | 1 | 82.2 | 17.8 |
| 9 | A/IRN/22/99 | IRN99-22 | 633 | 514 | 0 | 81.2 | 18.8 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 636 | 509 | 0 | 80.03 | 19.97 |

nt, nucleotides

*, not a WRLFMD reference number

Report on: A Laos 2003



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene. The tree was outgroup-rooted using the Euro-SA topotype viruses.

* not a WRLFMD ref. no.