Supplementary Table 6- Viral production, quantified by viral titration

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Spanish VHSV strains | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| At the time of CPE1 | | | | | | | | | | | | |  | | Maximum viral production | | | | | | | | | | | | | | | |
| Line2 |  | MOI3 |  | Strain |  | Titer4 |  | | Time | |  | | | Line | |  | MOI |  | | Strain | |  | | Titer | |  | | Time | |
| EPC |  | 0.1 |  | Sm2897[H] |  | 1.5 x 108 |  | | 3d | |  | | | EPC | |  | 0.1 |  | | Sm2897[H] | |  | | 1.6 x 108  *8.18±0.15* | |  | | 6d | |
|  |  |  |  | DC1412[L] |  | 1.5 x 107 |  | | 3d | |  | | |  | |  |  |  | | DC1412[L] | |  | | 4.2 x 107  *7.62±0.06* | |  | | 7d | |
|  |  |  |  |  |  |  | |  | |  | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
| RTG-2 |  | 0.01 |  | Sm2897[H] |  | 1.1 x 107 |  | | 4-5d | |  | | | RTG-2 | |  | 0.1 |  | | Sm2897[H] | |  | | 8.8 x 107  *7.93±0.13* | |  | | 6d | |
|  |  |  |  | DC1412[L] |  | ND |  | |  | |  | | |  | |  |  |  | | DC1412[L] | |  | | 4.5 x 108  *8.63±0.14* | |  | | 3d | |
|  |  |  |  |  |  |  |  | |  | |  | | |  | |  |  |  | |  | |  | |  | |  | |  | |
|  |  | 0.1 |  | Sm2897[H] |  | 4.1 x 107 |  | | 3d | |  | | |  | |  |  |  | |  | |  | |  | |  | |  | |
|  |  |  |  | DC1412[L] |  | 2.1 x 108 |  | | 3d | |  | | |  | |  |  |  | |  | |  | |  | |  | |  | |
|  |  |  |  |  |  |  |  | |  | |  | | |  | |  |  |  | |  | |  | |  | |  | |  | |
|  |  | 1.0 |  | Sm2897[H] |  | 2.7 x 107 |  | | 2-3d | |  | | |  | |  |  |  | |  | |  | |  | |  | |  | |
|  |  |  |  | DC1412[L] |  | 1.8 x 107 |  | | 3d | |  | | |  | |  |  |  | |  | |  | |  | |  | |  | |
|  |  |  |  |  |  |  |  | |  | |  | | |  | |  |  |  | |  | |  | |  | |  | |  | |
| Italian VHSV strains | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| At the time of CPE | | | | | | | | | | | | |  | | Maximum viral production | | | | | | | | | | | | | | | |
| Line |  | MOI |  | Strain |  | Titer | |  | | Time | |  | | Line | |  | MOI |  | Strain | |  | | Titer | |  | | Time | |
| EPC |  | 0.1 |  | TN68[H] |  | 7.2 x 107 | |  | | N/Av | |  | | EPC | |  | 0.1 |  | TN68[H] | |  | | 3.0 x 107  *7.47±0.14* | |  | | 3d | |
|  |  |  |  | TN80[H] |  | NA | |  | |  | |  | |  | |  |  |  | TN80[H] | |  | | NA | |  | |  | |
|  |  |  |  | TN470[H] |  | 3.5 x 107 | |  | | N/Av | |  | |  | |  |  |  | TN470[H] | |  | | 4.0 x 106  *6.55±0.25* | |  | | 3d | |
|  |  |  |  | TN480[L] |  | 7.4 x 107 | |  | | N/Av | |  | |  | |  |  |  | TN480[L] | |  | | 9.6 x 107  *7.97±0.14* | |  | | 3d | |
|  |  |  |  |  |  |  | |  | |  | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
| RTG-2 |  | 0.01 |  | TN68[H] |  | 6.5 x 106 | |  | | 3-4d | |  | | RTG-2 | |  | 0.1 |  | TN68[H] | |  | | 8.7 x 106  *6.88±0.29* | |  | | 7d | |
|  |  |  |  | TN80[H] |  | NA | |  | |  | |  | |  | |  |  |  | TN80[H] | |  | | 3.5 x 106  *6.50±0.25* | |  | | 6d | |
|  |  |  |  | TN470[H] |  | 8.0 x 106 | |  | | 3-4d | |  | |  | |  |  |  | TN470[H] | |  | | 5.4 x 106  *6.58±0.45* | |  | | 6.5d | |
|  |  |  |  | TN480[L] |  | 6.2 x 108 | |  | | 3-4d | |  | |  | |  |  |  | TN480[L] | |  | | 8.7 x 107  *7.88±0.29* | |  | | 4.5d | |
|  |  |  |  |  |  |  | |  | |  | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
|  |  | 0.1 |  | TN68[H] |  | 7.4 x 106 | |  | | 2-3d | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
|  |  |  |  | TN80[H] |  | NA | |  | | 3d | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
|  |  |  |  | TN470[H] |  | 5.0 x 106 | |  | | 2-3d | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
|  |  |  |  | TN480[L] |  | 6.5 x 107 | |  | | 2-3d | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
|  |  |  |  |  |  |  | |  | |  | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
|  |  | 1.0 |  | TN68[H] |  | 3.5 x 106 | |  | | 2d | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
|  |  |  |  | TN80[H] |  | NA | |  | |  | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
|  |  |  |  | TN470[H] |  | 1.1 x 106 | |  | | 2-3d | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
|  |  |  |  | TN480[L] |  | 3.1 x 108 | |  | | 2d | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
|  |  |  |  |  |  |  | |  | |  | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
| Danish VHSV strains | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| At the time of CPE | | | | | | | | | | | | |  | | Maximum viral production | | | | | | | | | | | | | | | |
| Line |  | MOI |  | Strain |  | Titer | |  | | Time | |  | | Line | |  | MOI |  | Strain | |  | | Titer | |  | | Time | |
| RTG-2 |  | 0.1 |  | DK3592[H] |  | 8.2 x 106  *6.75±0.53* | |  | | 2-3d | |  | | RTG-2 | |  | 0.1 |  | DK3592[H] | |  | | 1.7 x 107  *7.08±0.50* | |  | | 2-3d | |
|  |  |  |  | DK-F1[V] |  | 3.0 x 105  *5.47±0.14* | |  | | 2-3d | |  | |  | |  |  |  | DK-F1[V] | |  | | 1.6 x 107  *7.08±0.38* | |  | | 2d | |
|  |  |  |  | DK-1p8[L] |  | 1.1 x 105  *5.05±0.10* | |  | | 4d | |  | |  | |  |  |  | DK-1p8[L] | |  | | 3.8 x 105  *5.50±0.33* | |  | | 2d | |
|  |  |  |  |  |  |  | |  | |  | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
| BF-2 |  | 0.1 |  | DK3592[H] |  | 1.8 x 109  *9.17±0.38* | |  | | 3d | |  | | BF-2 | |  | 0.1 |  | DK3592[H] | |  | | 3.7 x 109  *9.47±0.38* | |  | | 6d | |
|  |  |  |  | DK-F1[V] |  | 3.0 x 106  *6.25±0.66* | |  | | 3d | |  | |  | |  |  |  | DK-F1[V] | |  | | 1.6 x 107  *7.15±0.26* | |  | | 6d | |
|  |  |  |  | DK-1p8[L] |  | 8.3 x 107  *7.92±0.14* | |  | | 3d | |  | |  | |  |  |  | DK-1p8[L] | |  | | 2.3 x 108  *8.3±0.32* | |  | | 4d | |
|  |  |  |  |  |  |  | |  | |  | |  | |  | |  |  |  |  | |  | |  | |  | |  | |
| French VHSV recombinant strains | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| At the time of CPE | | | | | | | | | | | | |  | | Maximum viral production | | | | | | | | | | | | | | | |
| Line |  | MOI |  | Strain |  | Titer | |  | | Time | |  | | Line | |  | MOI |  | Strain | |  | | Titer | |  | | Time | |
| EPC |  | 0.1 |  | Wt[H] |  | 5.5 x 108 | |  | | 2-3d | |  | | EPC | |  | 0.1 |  | Wt[H] | |  | | 4.3 x 108  *8.58±0.2* | |  | | 5d | |
|  |  |  |  | NV-R116Y[H] |  | 7.6 x 108 | |  | | 2-3d | |  | |  | |  |  |  | NV-R116Y[H] | |  | | 5.6 x 108  *8.72±0.21* | |  | | 5d | |
|  |  |  |  | NV-R116S[M] |  | 6.4 x 108 | |  | | 2-3d | |  | |  | |  |  |  | NV-R116S[M] | |  | | 1.9 x 107  *7.22±0.31* | |  | | 5d | |
|  |  |  |  | DD224[L] |  | 1.1 x 109 | |  | | 2-3d | |  | |  | |  |  |  | DD224[L] | |  | | 1.4 x 108  *8.00±0.43* | |  | | 5d | |
|  |  |  |  | N-K46G[L] |  | NA | |  | |  | |  | |  | |  |  |  | N-K46G[L] | |  | | 2.0 x 107  *7.28±0.12* | |  | | \*5d | |
|  |  |  |  | NV\_N[L] |  | NA | |  | |  | |  | |  | |  |  |  | NV\_N[L] | |  | | 1.3 x 106  *6.00±0.43* | |  | | \*5d | |

1CPE: Cytopathic Effect; 2Line: cell line tested; 3MOI: multiplicity of infection; 4Titer: TCID50/ml (below: Average±Standard Deviation, when 3 replicas were titrated); ND: Not Detected; NA: Not Assayed; NDm: Not Determined; N/Av: not available. \*Considering the maximum time tested with the remaining strain (see Fig 10).