**Table 1. Neutralization effect of horse anti smallpox virus purified F(ab')2**

**on vaccinia virus Tiantan strain by MTT**

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| Antibody dilution | OD value (570nm) | |
| Purified equine F(ab')2 a | Normal horse immunoglobulin control a |
| 1/800 | 1.684±0.568 | 0.726±0.220 |
| 1/1600 | 1.781±0.327 | 0.798±0.210 |
| 1/3200 | 1.521±0.507 | 0.640±0.295 |
| 1/6400 | 1.029±0.600 | 0.565±0.212 |
| 1/12800 | 0.960±0.493 | 0.653±0.282 |
| 1/25600 | 0.793±0.190 | 0.587±0.517 |
| Normal cell control b | 1.763±0.467 | |
| Virus infected cell control b | 0.663±0.374 | |

a The immunoglobulin F(ab')2 of equine anti smallpox virus and normal horse immunoglobulin control (with virus, with normal horse immunoglobulin) were both diluted twice with DMEM medium,the initial titer was 1:800, six gradients in total, and then the vaccinia virus Tiantan strain 105PFU was diluted with serum-free DMEM medium, and then 200ml/well was successively added with the cell holes which drew the supernatant in advance, each dilution was set with four multiple holes.

b Normal cell control (without virus,without F(ab')2), virus control (with virus, without F(ab')2), were set.

When the virus was in control cell lesion, add MTT (0.25mg/ml) 200ml/cell staining for 4h, suck off the liquid and add termination solution (10% SDS + 0.01mhcl) 200ml/cell dissolution for 8h, and determine the OD value of 570nm by enzyme-linked detector.