|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
| **A** | 100uM | HSV1 AD6 | HSV1 2uL | 100uM | CMV AD6 | HSV1 2uL | DMSO | HSV1 |  |  |  |  |
| **B** | 50uM | 50uL | HSV1 2uL | 50uM | 50uL | HSV1 2uL |  |  |  |  |  |  |
| **C** | 25uM | 50uL | HSV1 2uL | 25uM | 50uL | HSV1 2uL |  |  |  |  |  |  |
| **D** | 12.5uM | 50uL | HSV1 2uL | 12.5uM | 50uL | HSV1 2uL |  |  |  |  |  |  |
| **E** | 6.25uM | 50uL | HSV1 2uL | 6.25uM | 50uL | HSV1 2uL |  |  |  |  |  |  |
| **F** | 3.125uM | 50uL | HSV1 2uL | 3.125uM | 50uL | HSV1 2uL |  |  |  |  |  |  |
| **G** | 1.5625uM | 50uL | HSV1 2uL | 1.5625uM | 50uL | HSV1 2uL |  |  |  |  |  |  |
| **H** | Cells only | Cells only | Cells only | Virus only | Virus only | Virus only |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
| **A** | 100uM | HSV1 AD6 | HCMV 30uL | 100uM | CMV AD6 | HCMV 30uL | DMSO | HCMV |  |  |  |  |
| **B** | 50uM | 50uL | HCMV 30uL | 50uM | 50uL | HCMV 30uL |  |  |  |  |  |  |
| **C** | 25uM | 50uL | HCMV 30uL | 25uM | 50uL | HCMV 30uL |  |  |  |  |  |  |
| **D** | 12.5uM | 50uL | HCMV 30uL | 12.5uM | 50uL | HCMV 30uL |  |  |  |  |  |  |
| **E** | 6.25uM | 50uL | HCMV 30uL | 6.25uM | 50uL | HCMV 30uL |  |  |  |  |  |  |
| **F** | 3.125uM | 50uL | HCMV 30uL | 3.125uM | 50uL | HCMV 30uL |  |  |  |  |  |  |
| **G** | 1.5625uM | 50uL | HCMV 30uL | 1.5625uM | 50uL | HCMV 30uL |  |  |  |  |  |  |
| **H** | Cells only | Cells only | Cells only | Virus only | Virus only | Virus only |  |  |  |  |  |  |

Calculations

HSV1 AD6 = 6,400g/mol

Peptide dissolved in 125uL of DMSO therefore we 125uL of 40mg/mL stock

Convert 40mg/mL to 40 g/L

Calculate the volume of peptide stock to by C1 x V1 = C2 x V2. We want 100uM/100uL in the first set of dilution however we double the concentration for the first well

= 6.4uL total in 195.6uL media

CMV AD6 = 6,300g/mol

Peptide dissolved in 125uL of DMSO therefore we 125uL of 40mg/mL stock

Convert 40mg/mL to 40 g/L

Calculate the volume of peptide stock to by C1 x V1 = C2 x V2. We want 100uM/100uL in the first set of dilution however we double the concentration for the first well

= 6.3uL total in 195.7uL media

HSV1 + media total volume = 2,400uL = 96uL of virus + 2304uL of media

HCMV + media total volume = 2,400uL = 1440uL of virus + 960uL of media (4 repeats =