

# Model of Pseudovirus Neutralization

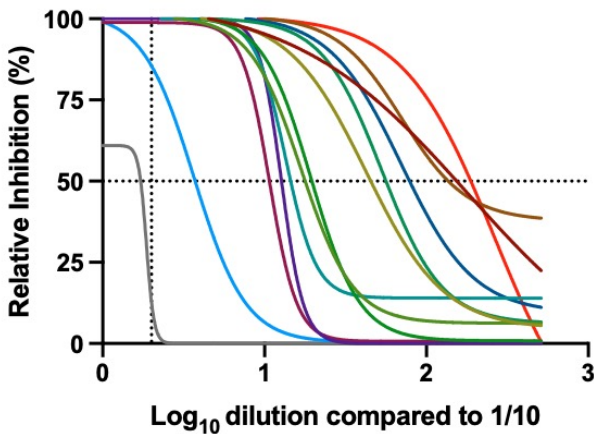
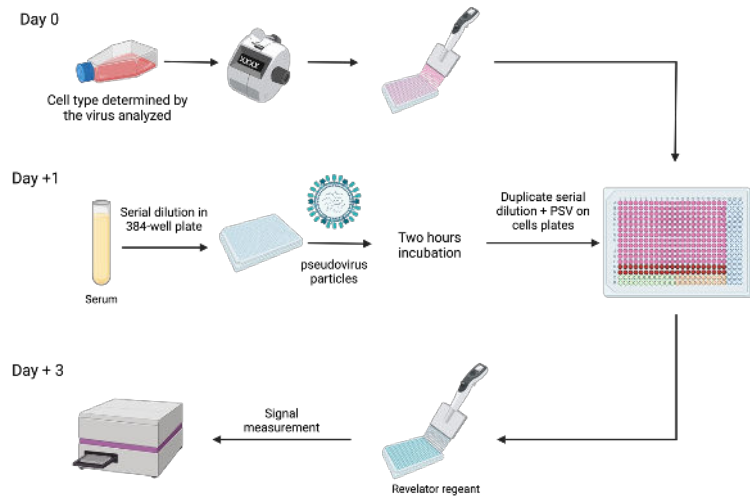
You are developing a drug/vaccine against a pathogen and want to evaluate neutralizing antibody against the virus under study?

QUALIblood proposes cell models allowing to measure neutralizing antibodies against a pathogen in decompartmented patient sera.

The **in vitro model** using a specific cell based on the analyzed virus allows to measure neutralizing antibodies in patient sera.

The patient sera are serially diluted in a culture medium and mixed with pseudovirus to be added to the cells and incubated for 48 h at 37°C.

After reagent addition, luciferase activity, proportional to the cells infected by the pseudovirus is measured.



Patient serum data are normalized to the positive control where cells are incubated with pseudovirus in the absence of serum.

The antibody titer is determined as the dilution of serum at which 50% of the infectivity is inhibited (IC<sub>50</sub>) as determined by a nonlinear sigmoid regression model.

A sample with a titer of less than 1/20 is considered negative.



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