

BIOCHEK PLATE / DILUTION PROCEDURE FOR KITS WITH DIFFERENT (GREEN AND YELLOW) DILUENT

1. Pipette **5 ul of serum** directly in a well of a dilution plate (polystyrene microtiter plate).
2. Add **245 ul of BioChek Green Sample Diluent** into each well of your dilution plate. This will give you a 1: 50 dilution of Serum to Diluent in the dilution plate.
3. Put dilution plate on plate shaker or shake manually
4. Pipette **90 ul of Sample Diluent** into each well of a **BioChek test kit plate**. In this step you must add the diluent that is specific to the kit. For instance, for IBD you use 90 ul of **green diluent**. For MG kit you use 90 ul **yellow diluent**.
5. Take **10 ul the 1: 50 diluted serum from the dilution plate**, and add it to each corresponding well of the **BioChek test kit plate**. This will give you a final 100ul/well of 1: 500 serum dilution on the BioChek test plate.

For this plate dilution method the use of the following pipettes are recommended:

- Single Channel pipette , 0.5 – 10ul
- 8-channel pipette, 5- 50ul
- 8-channel pipette, 50- 300ul

You can use the stock 1:50 dilution to run tests at different dilutions.

Please consult with the table below to find the amount of mixing volumes needed to reach your final dilution on the test plate.

Diluted serum (1:50)	Sample Diluent	Final dilution on test plate
10ul	90ul	1: 500
50ul	50ul	1: 100 (ORT and SE, SE/ST vaccination monitoring test)
100ul	0ul	1:50 (AI Multispecies)

The following pages illustrate the schematic summary of the dilution steps.

BIOCHEK PLATE / DILUTION PROCEDURE 1:500

DILUTION PLATE

(Create 1:50 Serum to Sample Diluent dilution)

Add 5 ul Serum to bottom of empty well (Use single channel Pipette 0.5 – 10ul)

+

then add 245 ul BioChek Green Sample Diluent (Use 8-channel Pipette 50 – 300ul)

Put Dilution Plate on Plate Shaker or shake Plate manually



BIOCHEK TEST PLATE

Add 90 ul of kit specific Diluent to each well (For instance Green diluent for IBD and Yellow diluent for MG) (Use 8-channel Pipette 50 – 300ul)

+

Add 10 ul 1:50 diluted Serum to BioChek testplate)

!Incubation time has started!

**BIOCHEK PLATE / DILUTION PROCEDURE 1:100 ORT & SE ,
SE/ST vaccination monitoring**

DILUTION PLATE

(Create 1:50 Serum to Sample Diluent dilution)

Add 5 ul Serum to bottom of empty well (Use single channel Pipette 0.5 – 10ul)

+

then add 245 ul BioChek Green Sample Diluent (Use 8-channel Pipette 50 – 300ul)

Put Dilution Plate on Plate Shaker or shake Plate manually



BIOCHEK TEST PLATE

Add 50 ul of kit specific Diluent to each well (For instance Green diluent for IBD and Yellow diluent for MG) (Use 8-channel Pipette 50 – 300ul)

+

Add 50 ul 1:50 diluted Serum to BioChek testplate)

!Incubation time has started!

BIOCHEK PLATE / DILUTION PROCEDURE 1:50 AI Multi

DILUTION PLATE

(Create 1:50 Serum to Sample Diluent dilution)

Add 5 ul Serum to bottom of empty well (Use single channel Pipette 0.5 – 10ul)

+

then add 245 ul BioChek Green Sample Diluent (Use 8-channel Pipette 50 – 300ul)

Put Dilution Plate on Plate Shaker or shake Plate manually



BIOCHEK TEST PLATE

Add 50 ul 1:50 diluted Serum to BioChek testplate)

!Incubation time has started!