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Purification of avian egg yolk immunoglobulins using the water dilution method and precipitation with isopropanol.

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Protocol status: Working
We use this protocol and it's working

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1 Separate egg yolk from the egg white.

2 Add nine parts of distilled water to one part egg yolk.

3 Mix and stir slowly for 6.30 h at 4°C.

4 Centrifuge at 10 000 × g, at 4°C for 25 min to precipitate the lipids.

5 Collect the supernatant containing the IgY (water soluble fraction).

6 Slowly add 5 ml of cold isopropanol to the preparation, stirring constantly, and centrifuge at low spead.

7 Dilute the precipitate in PBS and adjust pH to 7.6. Calculate the protein concentration by ELISA. spectrophotometry or Bradford method.

8 Determine the purity of the preparation by SDS-PAGE.