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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 speed.
- 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.