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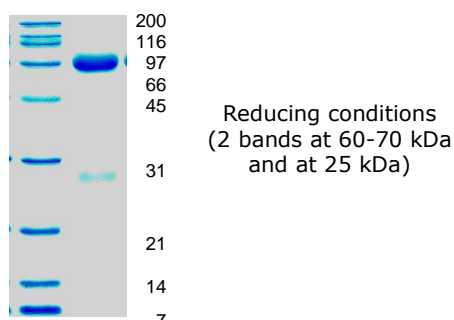
EggsPure

A specific tool for the rapid purification of IgY contained in egg yolk.

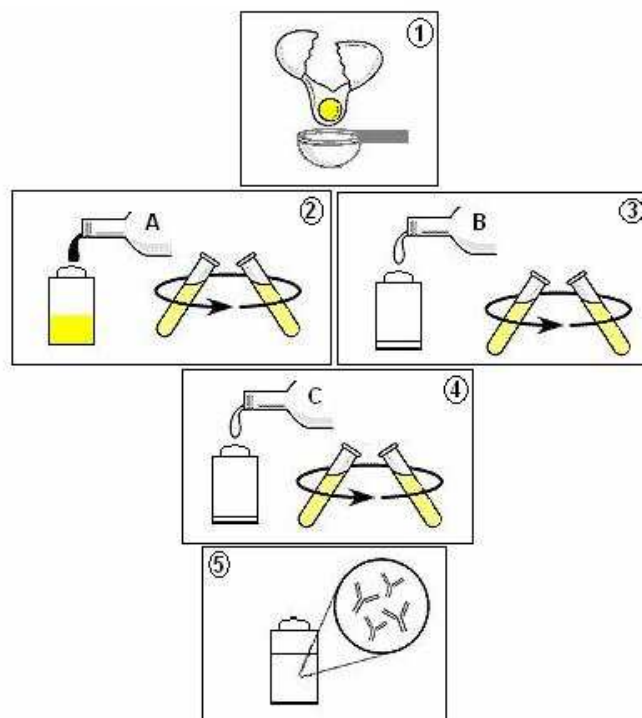
The use of chickens is regarded as a refinement of the technique to produce polyclonal antibodies by reducing stress and suffering of animals. The antibodies are extracted from egg yolk with no need of bleeding the animals. The hens lay each day an egg containing 10 to 50 mg of antibody (IgY) of molecular mass 180 kDa. The presence of many lipids in the egg yolk and the lack of affinity of IgY for the proteins A and G makes complex the purification of antibodies.

- ❖ Contrary to IgG, the IgY:
 - Does not bind bacterial or mammalian Fc receptors,
 - Does not activate mammalian complement system,
 - Are stable in front of some proteases.
- ❖ Compared to IgG, IgY can recognize different epitopes on the same antigenic molecules. IgY are antibodies of choice when the antigen is a protein highly conserved in mammals.
- ❖ Advantages of this kit:
 - Quickness: fast protocol in 1 hour including less than 15 minutes of manipulation.
 - Facility of use: a column of chromatography is not necessary.
 - High purity: the purity of the total IgY extracted is superior to 90 %.
 - Various specificities: validated on eggs from duck, partridge and goose.
 - Flexibility: the eggs can be stored 2 months at 2-8°C before purification.
 - Simplicity: the use of a low speed centrifuge.

Electrophoresis of IgY purify with EggsPure IgY



Protocol of purification:



1. Separate the white of egg yolks by getting back the yellow.
2. Mix the egg yolks with the reagent A. Shake 5 minutes then centrifuge at 2000 g for 10 minutes at room temperature.
3. Filter the supernatant and add the reagent B. Shake 5 minutes then centrifuge at 2000 g for 10 minutes at room temperature.
4. Discard the supernatant and resuspend the pellet with reagent C. Shake 5 minutes then centrifuge at 2000 g for 10 minutes at room temperature.
5. Discard the supernatant and resuspend the pellet with the IgY in PBS.

Ref	Description
LT01110	6 eggs extractions
LT01111	12 eggs extractions

PURCHASES / TECHNICAL SUPPORT

Contact our technical support:

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