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# Binding of avian immunoglobulins to peroxidase-labeled anti-chicken IgY conjugate by double immunodiffusion (Ouchterlony) technique.

Angel A Justiz-Vaillant<sup>1</sup><sup>1</sup>University of the West Indies St. Augustine

1 Works for me [dx.doi.org/10.17504/protocols.io.bjsiknce](https://dx.doi.org/10.17504/protocols.io.bjsiknce)

University of the West Indies [angel.vaillant@sta.uwi.edu](mailto:angel.vaillant@sta.uwi.edu)

Angel Justiz-Vaillant  
University of the West Indies St. Augustine

## ABSTRACT

In this experiment anti-chicken IgY developed in rabbit cross-reacts with a large panel of avian species including ostrich, duck, pigeon, and quail.

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## MATERIALS

NAME	CATALOG #	VENDOR
Anti-Chicken IgY, HRP Conjugate, 300ul	G1351	Promega

- 1 The binding of avian immunoglobulins to a secondary antibody rabbit anti-chicken IgY antibody was investigated by the Ouchterlony technique.
- 2 Briefly, 1% agarose gels are prepared and wells cut into the gel using a template.

Initially, aliquots of 25 µl each of rabbit anti-IgY antibody at 1 µg/µl are applied to the centre well.

3

- 4 The peripheral wells are filled with 25  $\mu$ l each of IgY (30  $\mu$ g/ $\mu$ l) of various avian immunoglobulins Y (IgY) including duck, pigeon, chicken, bantam hen, ostrich, pheasant, guinea hen, goose, quail, cattle egret and other species. This IgY were isolated from the egg by the method of Polson, 1990.
- 5 The gels are incubated at RT for 48–72 hours on a humidity chamber.
- 6 After that the gels are examined for precipitin lines.
- 7 Chicken IgY is included as a positive controls.
- 8 The positive results are taken as the presence of precipitin line/s and negative results, the absence of precipitin lines.