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© Binding properties of Human IgG to immunoglobulinbinding proteins tested by double immunodiffusion (Ouchterlony) technique.

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ABSTRACT

- 1. IBP-HRP conjugates can be prepared in the laboratory by the periodate method.
- 2. The Human IgG used can be commercially available of prepared in the laboratory from human sera by affinity chromatography (using an SpG-agarose column).
- 3. SpG-agarose column are widely commercially prepared.
- 4. PURE-1A antibody purification kit will be discontinued. However there are others product for this purpose as Montage Antibody Purification Kit with PROSEP-G media.

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PROTOCOL CITATION

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MATERIALS

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Affinity Purification Using HiTrap™ Columns

Montage Antibody Purification Kit with PROSEP-G
media

PURE-1A (antibody purification kit) – Sigma Aldrich

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1	The binding of Human IgG to peroxidase-conjugated Immunoglobulin-binding protein (IBP-HRP) including SpA-HRP, SpG-HRP, SpL-HRP, SpLA-HRP, SpLG-HRP, SpLAG-HRP and turtle serum (Sigma-Aldrich) as a negative control are investigated by double immunodiffusion.
2	Briefly, 1% agarose gels are prepared and wells cut into the gel using a template.
3	Initially, aliquots of 25μ l of purified human IgG (Sigma-Aldrich) at a concentration of one (1) μ g/ μ l are applied to the centre well. Human IgG could be prepared homemade by purifying human serum by SpA-affinity chromatography (PURE-1A, Sigma-Aldrich).
4	The peripheral wells are filled with 25 µl each of bacterial protein conjugates including SpA-HRP, SpG-HRP, SpL-HRP, SpLA-HRP, SpAG-HRP, SpLG-HRP, diluted 1:5.
5	The gels are incubated at RT for 48-72 hours incubated in a humidity chamber.
6	After that the gels are examined for precipitin lines.
7	Turtle serum is included as negative controls and all IBP-HRP conjugates suppose to react with human IgG.
8	The positive results are taken as the presence of precipitin line/s and negative results, the absence of precipitin lines.