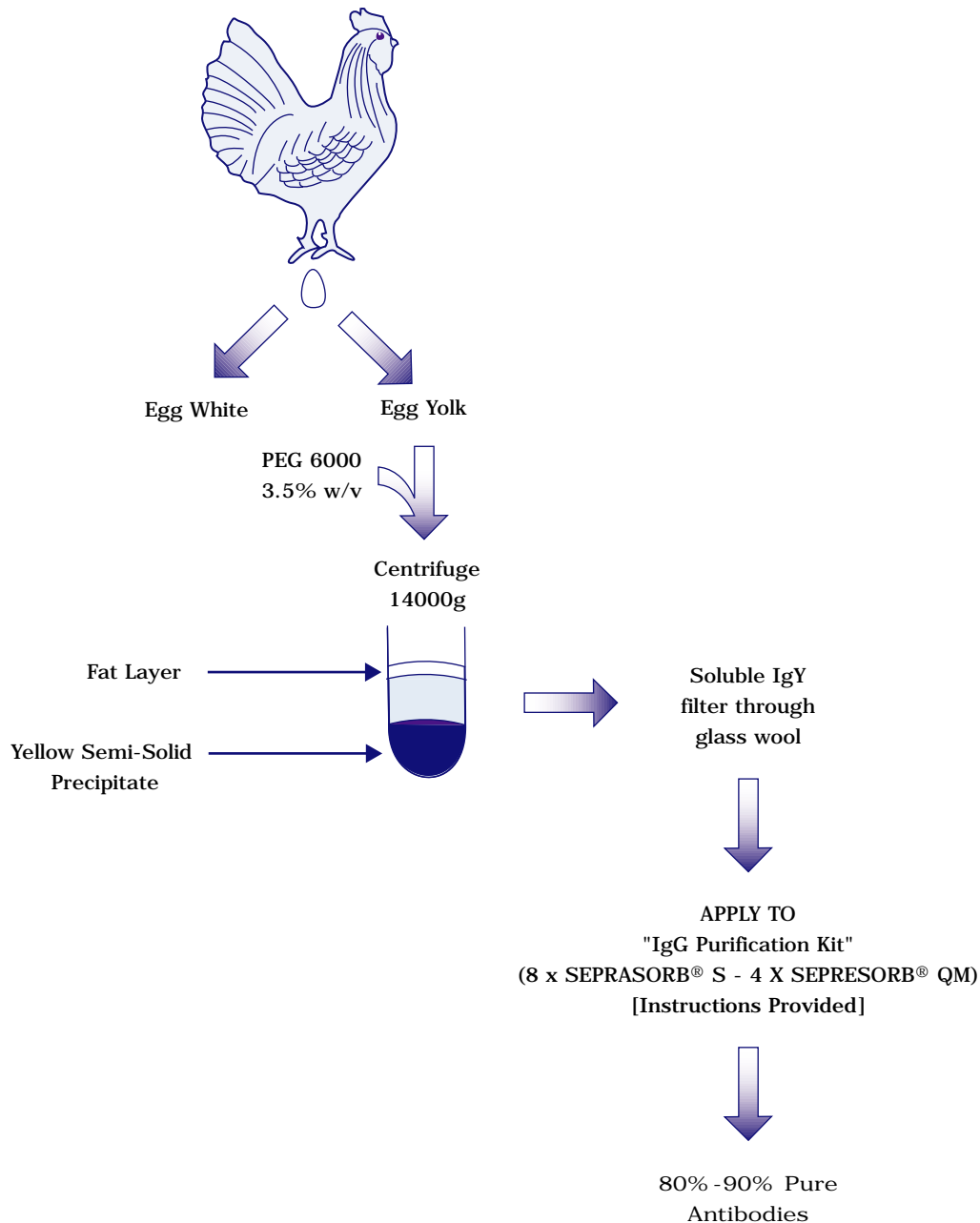


# Sepratorb® Applications

## Purification of IgG's from Egg Yolk

The "IgG Purification Kit" based on SEPRASORB® ion exchange columns can purify antibodies from egg yolk faster and with greater purity and recovery than traditional purification procedures.<sup>1</sup>



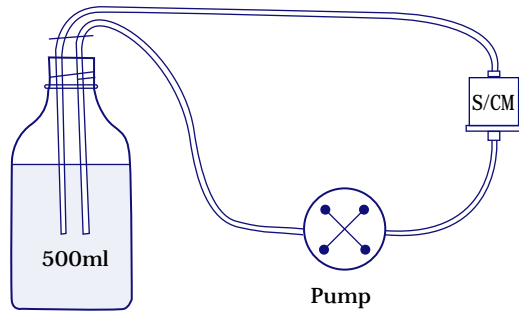
<sup>1</sup> Collin McKee  
Scottish National Blood  
Transfusion Service  
Edinburgh

# Sepratorb® Applications

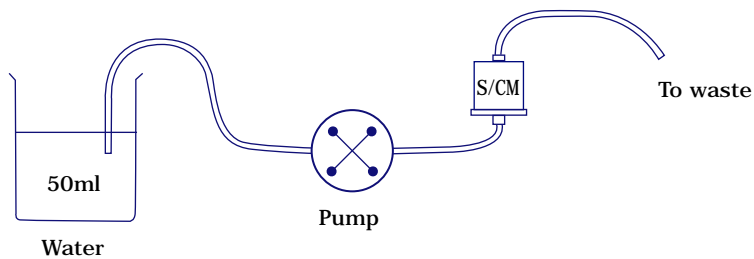
## Direct Isolation of Proteins from Cow's Milk

Skimmed milk can be processed directly on SEPRASORB® columns without pre-treatments. In this application the bacteriostatic, iron-binding protein, and lactoferrin was isolated in a single step procedure to an excess of 50% purity.

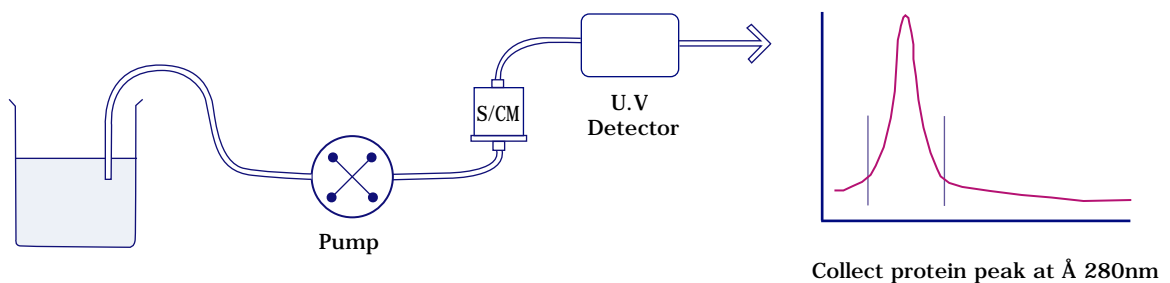
- 1) **Load.** Skimmed milk, pH adjusted to 6.0 with HCl, recirculated for 15-20 minutes at 30 ml/min.



- 2) **Wash.**



- 3) **Elute.** 50mM sodium carbonate pH 9.5



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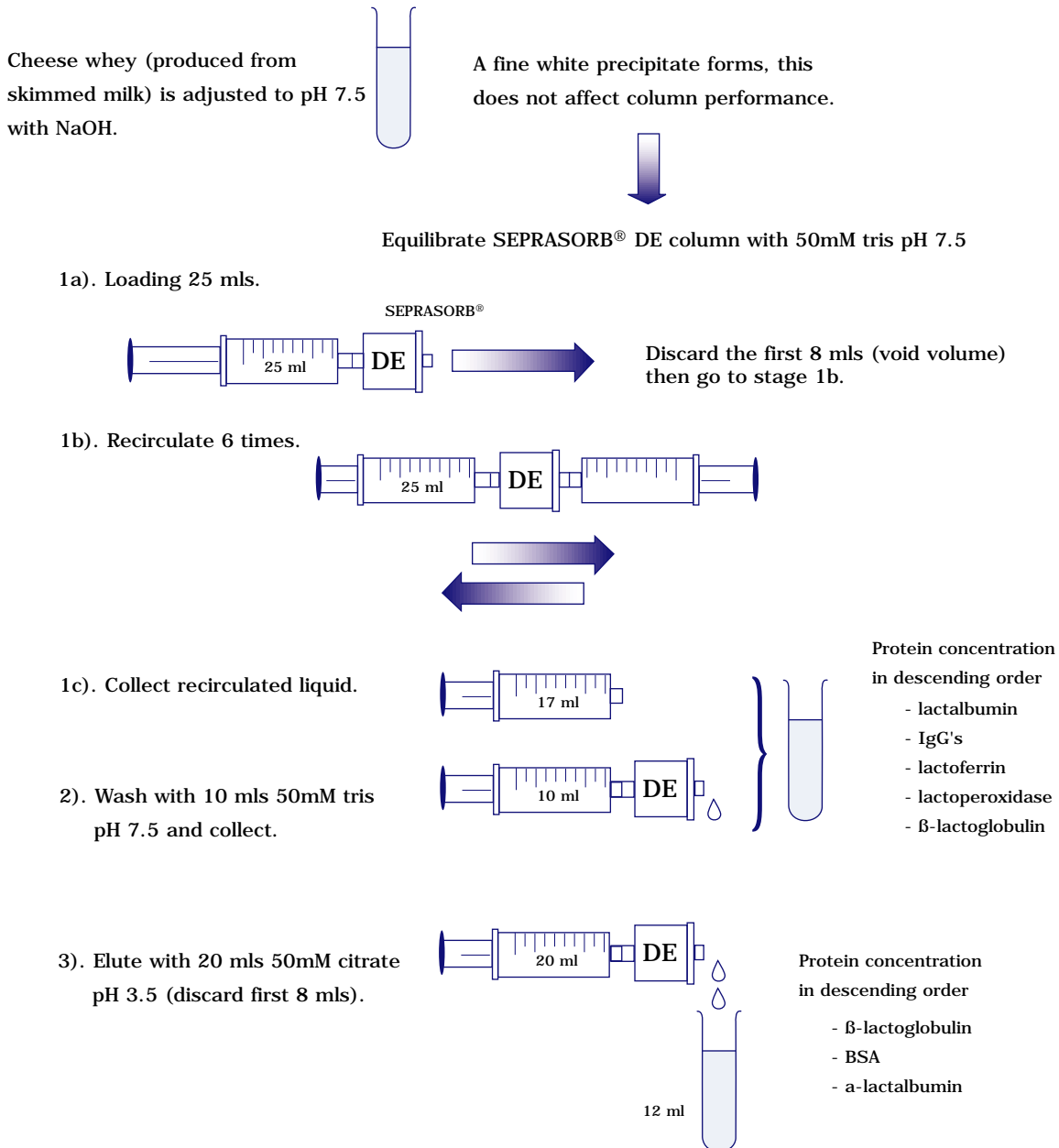
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# Sepratorb® Applications

## Direct Fractionation of Cheese Whey

$\beta$ -lactoglobulin is a minor component of human milk whereas it is a major protein in cheese whey from cow's milk and has been reported to cause allergic reactions. SEPRASORB® DE rapidly reduces the quantity of  $\beta$ -lactoglobulin in whey from 65% of the total protein to 10%. A simple syringe operated procedure is described here to illustrate the processing of a dirty unfiltered sample with SEPRASORB® columns.



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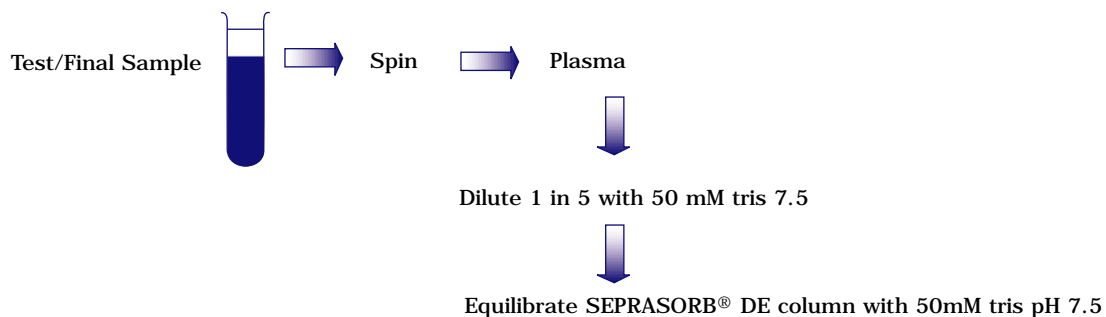
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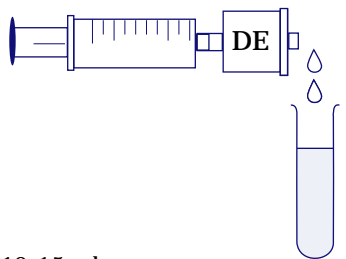
# Sepratorb® Applications

## Rapid Purification of Blood Plasma Proteins - Antibodies

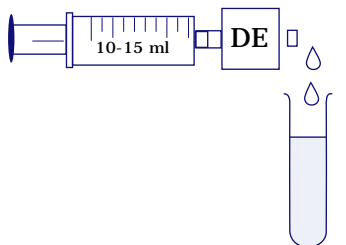
Antibodies may be isolated to 90% purity in a single step process from blood plasma in 5-10 minutes by binding contaminants in a syringe operated procedure using SEPRASORB® columns.



1) Load.



2) Wash with 10-15 ml  
50mM tris pH 7.5.



> 95% Recovery  
90% Purity IgG



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