

Blood group serology consultation

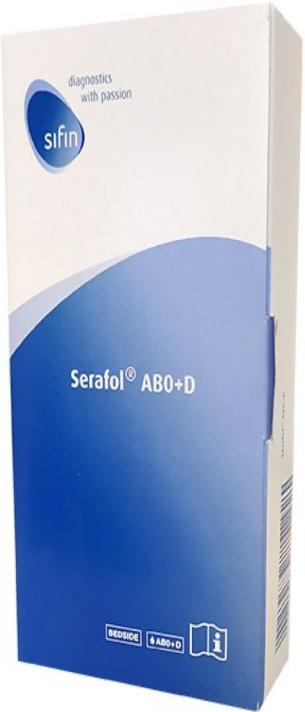
Serafol typing

Éva Fődi MD

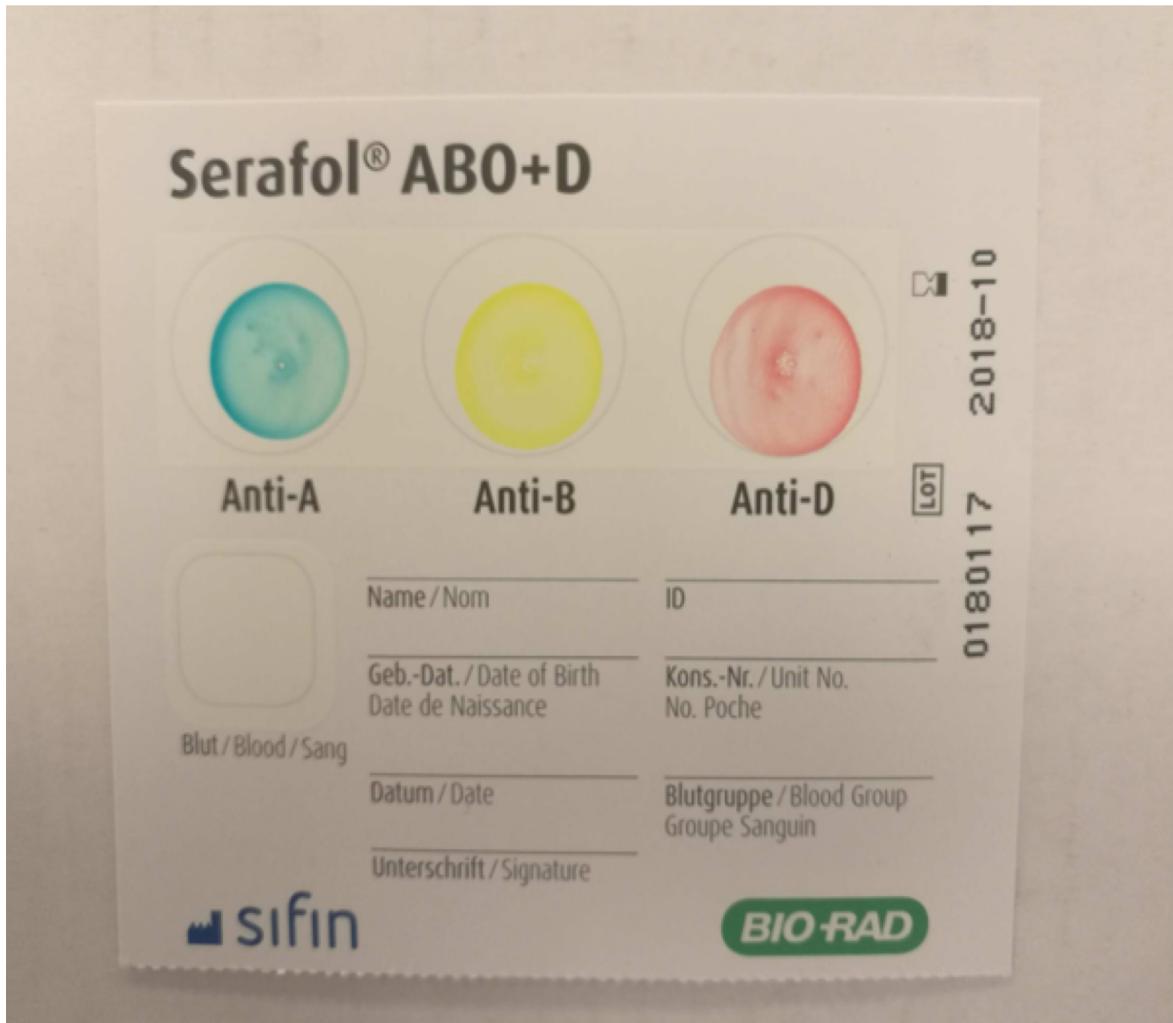
Hungarian National Blood Transfusion Service
Department of Szeged
fodi.eva@ovsz.hu

Serafol ABO

Serafol ABO+D



Serafol ABO+D card



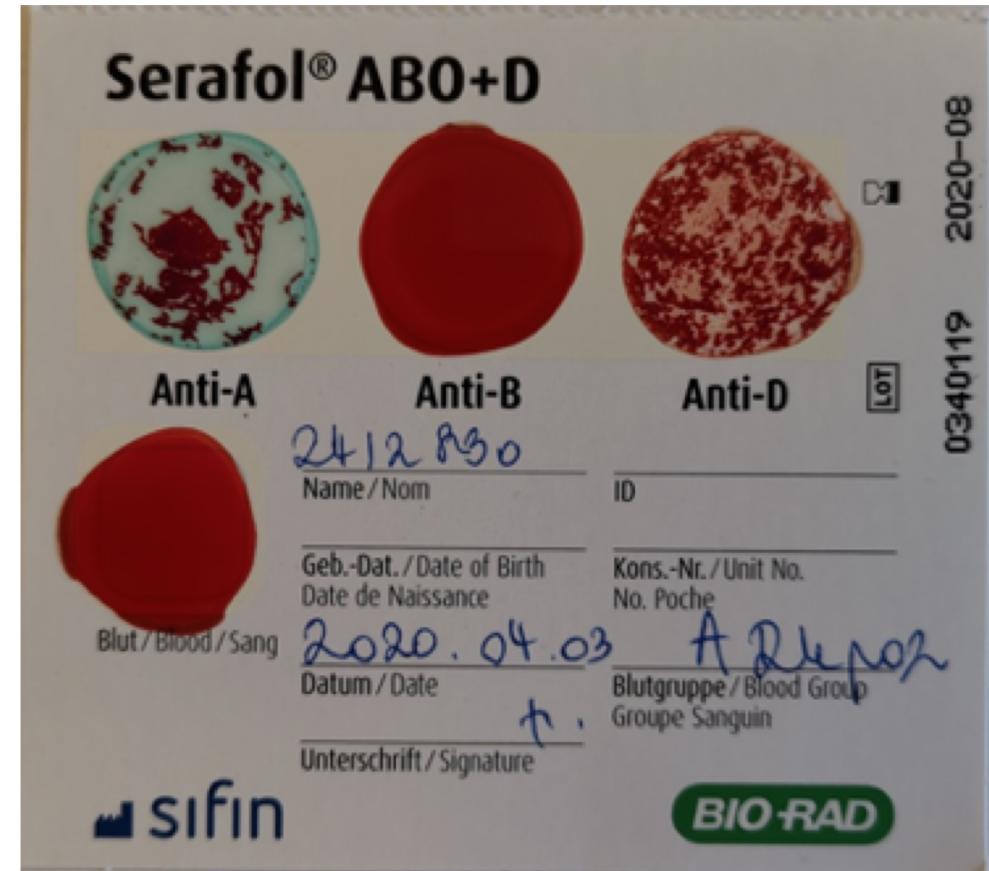
- Bedside card
- Coated with dried specific monoclonal reagents (Anti-A, Anti-B, Anti-D)
- Fill the card with patient's data
- 1 drop isotonic saline solution + 1 drop blood (from EDTA sample) to each reaction field
- Mix each field for approx. 30 seconds until the reagent is completely dissolved
- Observe for reactions

<https://youtu.be/nDU-uINm1T0>

A RhD negative



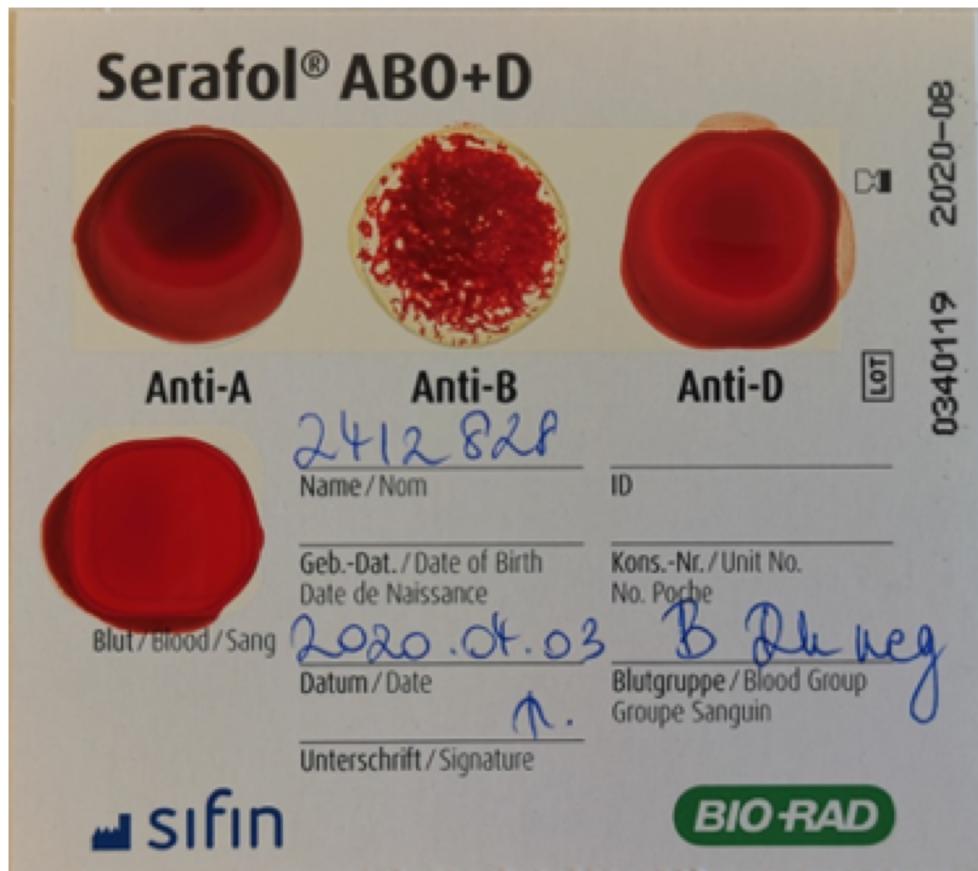
A RhD positive



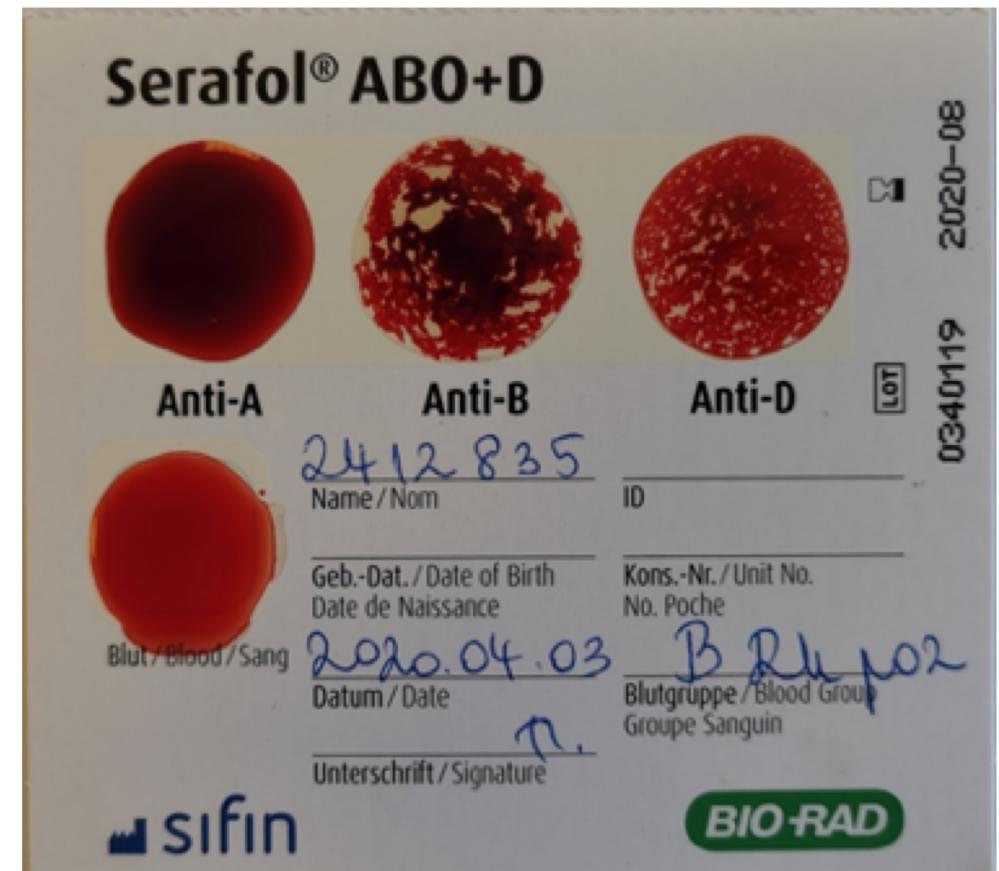
Agglutination only with Anti-A =
there is A antigen on red cells

Agglutination with Anti-A and Anti-D reagents = A and D antigen are presented on red cells

B RhD negative



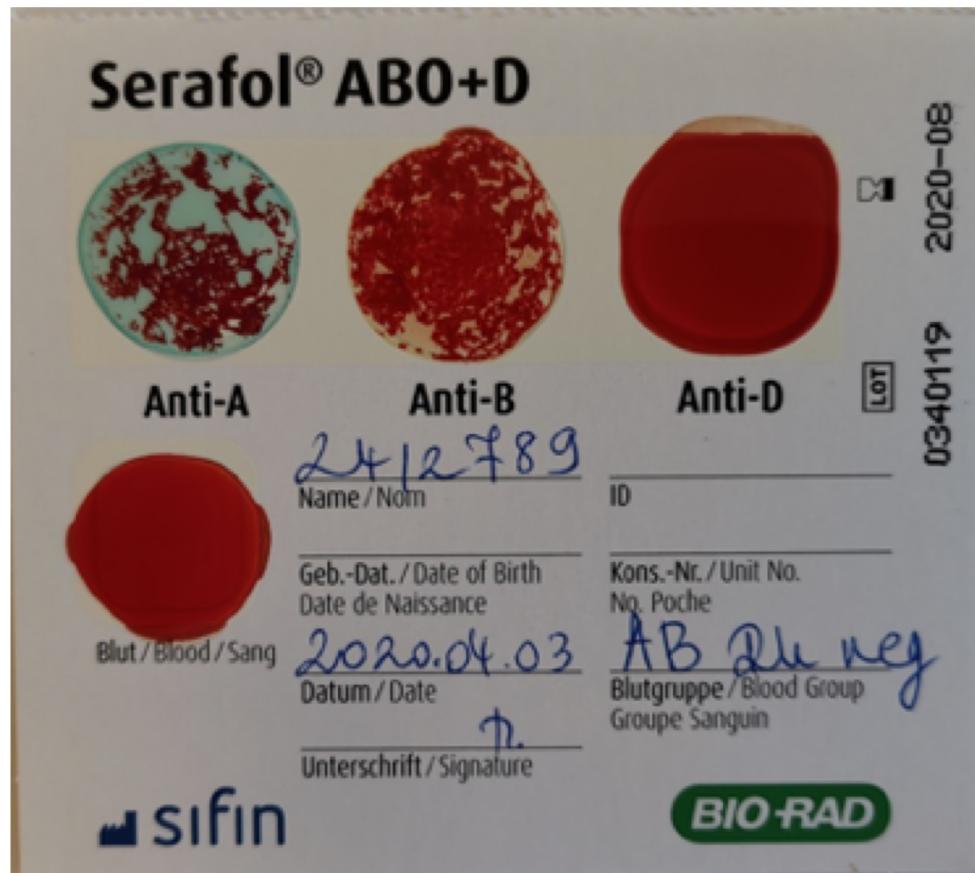
B RhD positive



Agglutination only with Anti-B= there is B antigen on red cells

Agglutination with Anti-B and Anti-D reagents = there are B and D antigens on red blood cells

AB RhD negative



AB RhD positive



Agglutination with Anti-A and Anti-B reagents = A and B antigens are on the surface of red blood cells

Agglutination with Anti-A, Anti-B and Anti-D = there are A, B and D antigens on red blood cells

O RhD negative



O RhD positive



There is no agglutination = no A, B or D antigen on cells

Agglutination only with Anti-D = D antigen are in red cells membrane, but no A or B antigen