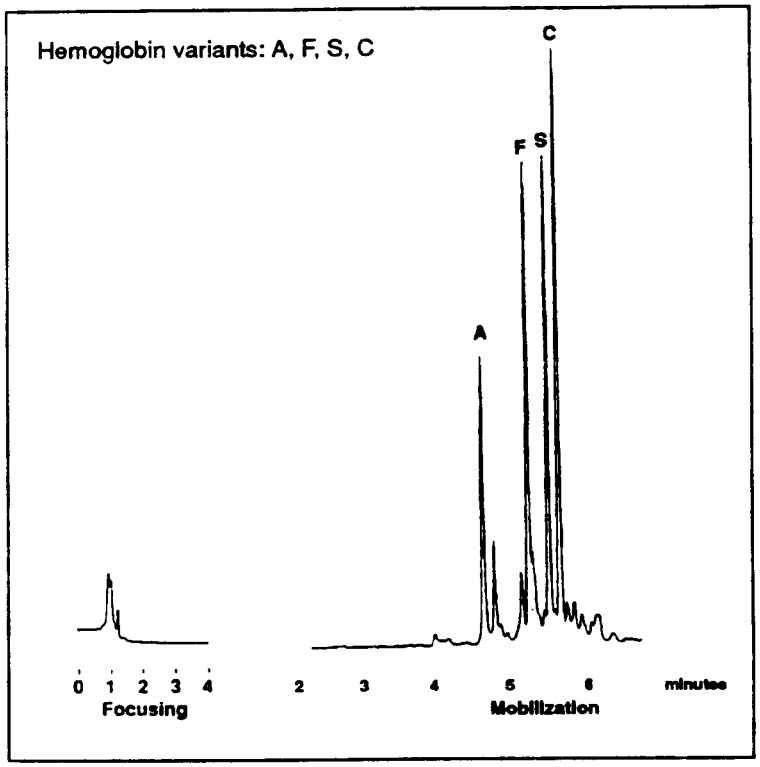
BIO-RAD

Isoelectric Focusing of Hemoglobin Variants

Application Note: 2

High resolution separation of proteins based on their isoelectric points can be achieved using isoelectric focusing in coated capillaries. By changing the composition of the anolyte or catholyte solutions, the focused proteins can be mobilized through the detector to generate an electropherogram. The resolving power of high performance isoelectric focusing is demonstrated in this separation of hemoglobin variants A, F, S, and C.



Capillary: 12 cm x 25 µm, coated

Buffer: Bio-Lyte® ampholytes, pH 3-10
Catholyte: 0.01 M phosphoric acid
Anolyte: 0.02 M NaOH
Mobilizer: 0.08 M NaCl and 0.02 M NaOH

Focusing conditions: 8 kV, constant voltage, ⊕→⊖ polarity

Mobilization: 8 kV, constant voltage, ⊕→⊖ polarity

Detection: UV, 280 nm, 0.02 AUFS

1575-02 1290 90-0291

Bio-Rad Laboratories, 2000 Alfred Nobel Drive, Hercules, CA 94547 • Phone (510) 741-1000