Electrorotation of red cells after electroporation.

Engel, J., Donath, E., Gimsa, J., 1988. *Studia biophysica* 125:53–62.

Abstract: *Electrorotation measurements of human red cells after dielectric breakdown showed a decreas in the first characteristic frequency simultaneously with a decrease in rotation. This behaviour was theoretically analyzed and internal and membrane conductivity were evaluated. It was shown that it is the internal conductivity which even after membrane dielectric breakdown determines mostly the electrorotational behaviour. From the membrane conductivity value followed that the AC-conductance might be realized through band 3 protein. A binding constant at the inner site of 2.1 mM and a membrane ion mobility value of 5x10-11 m2/Vs were estimated*