Supporting information

An Investigation of Layer-by-Layer Assembly of Polyelectrolytes on Fully Functional Human Red Blood Cells in Suspension for Attenuated Immune Response

Sania Mansouri[†], Yahye Merhi[‡, §], Françoise M. Winnik[‡], Maryam Tabrizian[†, ♦]

[†]Department of Biomedical Engineering, [♦]Faculty of Dentistry, McGill University, H3A 2B, [‡]Faculté de Pharmacie and Département de Chimie, Université de Montréal, H3C 3J7, and [§] Montreal Heart Institute, H1T 1C8, Montreal, Canada

Zeta-potential measurements

The ξ-potential of the multilayers was determined with a ZetaPlus instrument (Brookhaven Instruments Corporation, UK). Multilayer assembly was performed by sequential deposition of the polyelectrolytes starting with AL and following the protocol described in material and methods. The ξ-potential of each layer was measured after rinsing with 10 mM PBS pH 6.2.

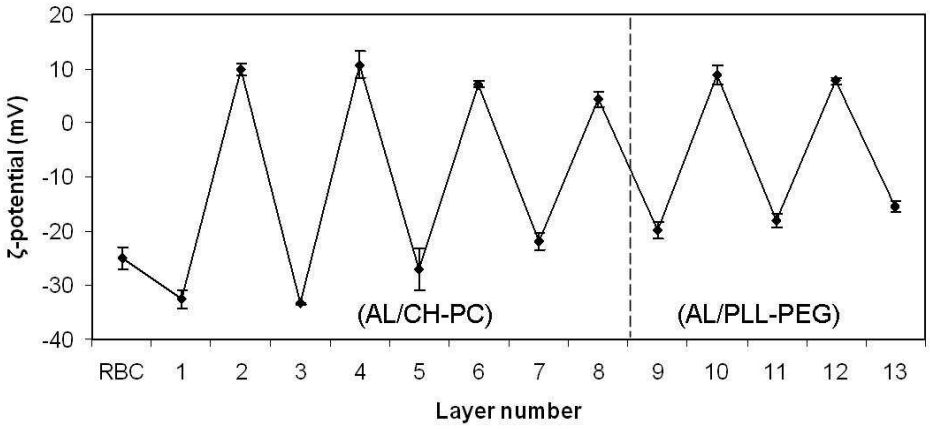

Figure 1. Demonstration of charge alternation as a function of layer number by Zeta potential measurements for two sets of polyelectrolytes made of AL and CH-PC up to 8 layer, and of AL and PLL-PEG to reach a maximum of 13 layers.