ONLINE RESOURCE

PREPARATION, CHARACTERIZATION AND IN VITRO ACTIVITIES EVALUATION OF TRIBLOCK COPOLYMERS-BASED POLYMERSOMES FOR DRUGS DELIVERY

JOURNAL OF NANOPARTICLE RESEARCH

Lucas N. Besada[1,2], Pablo Peruzzo[2], Ana M. Cortizo[1], M. Susana Cortizo[2*]

[1]Laboratorio de Investigaciones en Osteopatías y Metabolismo Mineral (LIOMM), Departamento de Cs. Biológicas, Facultad de Cs. Exactas, UNLP, La Plata, Argentina
[2]Instituto de Investigaciones Fisicoquímicas Teóricas y Aplicadas (INIFTA), Dpto. de Química, Fac. Cs. Exactas, UNLP, CCT- La Plata, CONICET CC 16, Suc. 4. Argentina

* Corresponding author: M. Susana Cortizo

Address: CC 16, Suc 4, La Plata, Argentina

E-mail: gcortizo@inifta.unlp.edu.ar

Te: +54-221-4257430, Fax: +54-221-425-4642

TEM images

Transmission electron microscopy (TEM) was performed with a JEOL 1200 EX II microscope. The sample was adsorbed onto the copper grids and negatively stained with 0.5% (wt/v) phosphotungstic acid adjusted to pH 7.

Fig. OR1 shows the TEM images of the morphology obtained from self-assembly of the samples 1 and 3 present in Table 1. It is posible to see that both triblock copolymer obtained from PEG6 (f = 67) and PEG3 (f = 48) did not conduct to the production of homogeneous polymersomes. In the case of sample 1, is possible to observe the formation of polymersomes with a broad particles size distribution, but is also possible to observe the presence of spherical micelles in the sample. On the other hand, sample 3 seem to form a hybrid morphology between "large compound vesicles" and "multilamellar vesicles" [Mai and Eisenberg 2012].

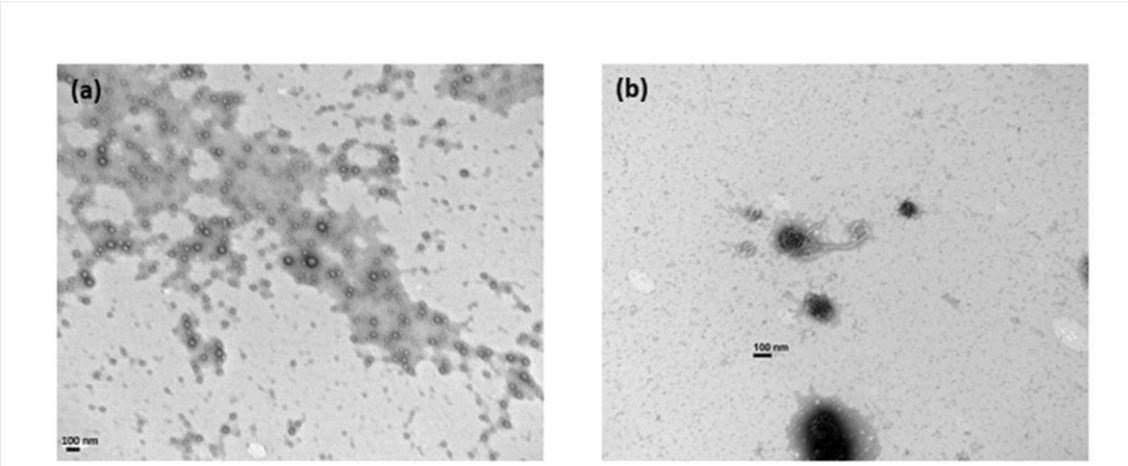

Fig. OR1. Transmition electron microscopy (TEM) micrographs of the morphologies formed from sampes 1 (a) and 3 (b).