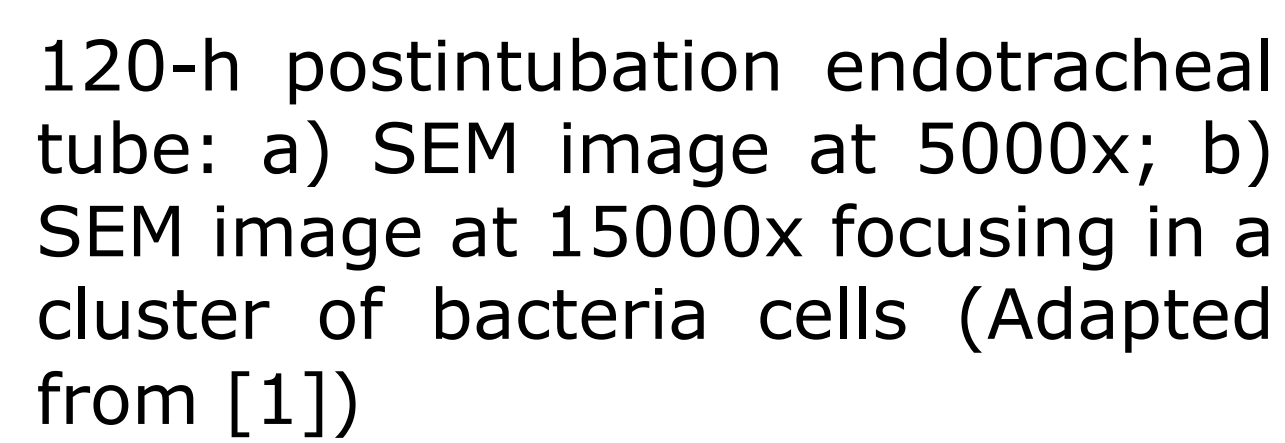


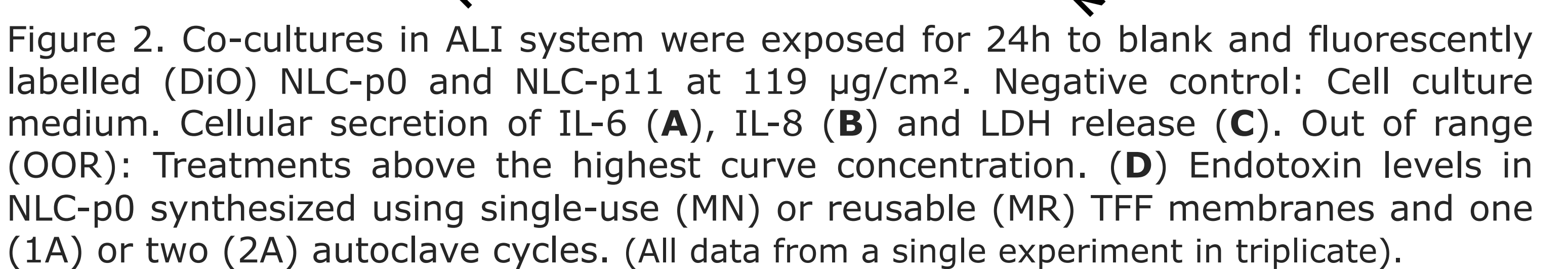
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The diagram illustrates the two-step process for creating functionalized nanolipid carriers (NLCs). In the first step, a surfactant mixture containing MCT, Trimyristin, and PC (p0 or p11) is heated at 57°C and 1250 rpm to form a 'Pristine NLC'. In the second step, the 'Pristine NLC' undergoes 'Lectin functionalization' to become a 'Functionalized NLC'.



NLC prototype	Surfactant composition	Size (nm)	PDI	Z potential (mV)
NLC-p0	PEG stearate 40 Poloxamer F68	160 ± 4	0.180	-30 ± 3
NLC-p11	Tween 80 Poloxamer F68	170 ± 8	0.200	-26 ± 2



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