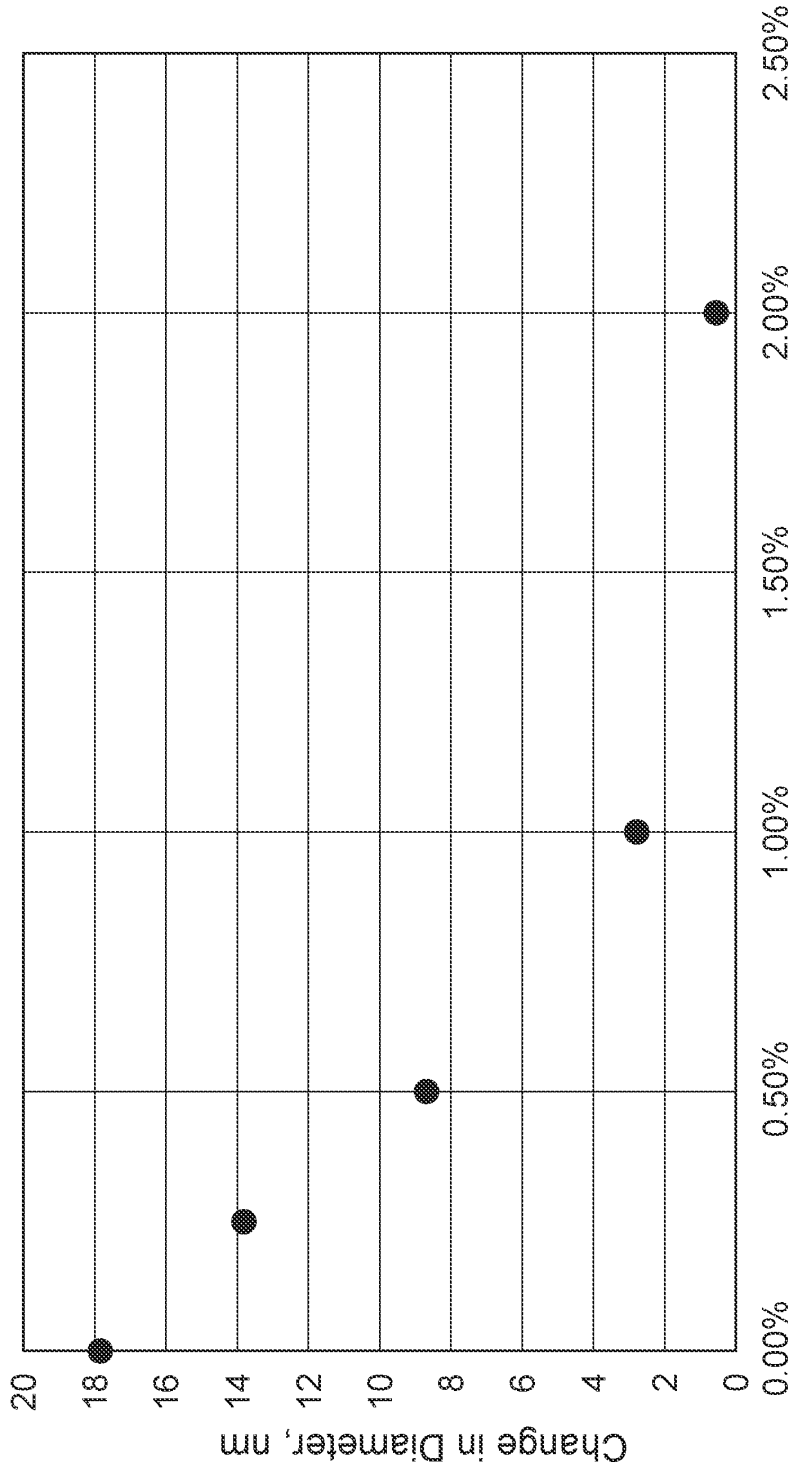

Change in Diameter, nm
20
18
16
14
12
10
8
6
4
2
0
0.00%
0.50%
1.00%
1.50%
2.00%
2.50%
mol% PEG

Fig. 1

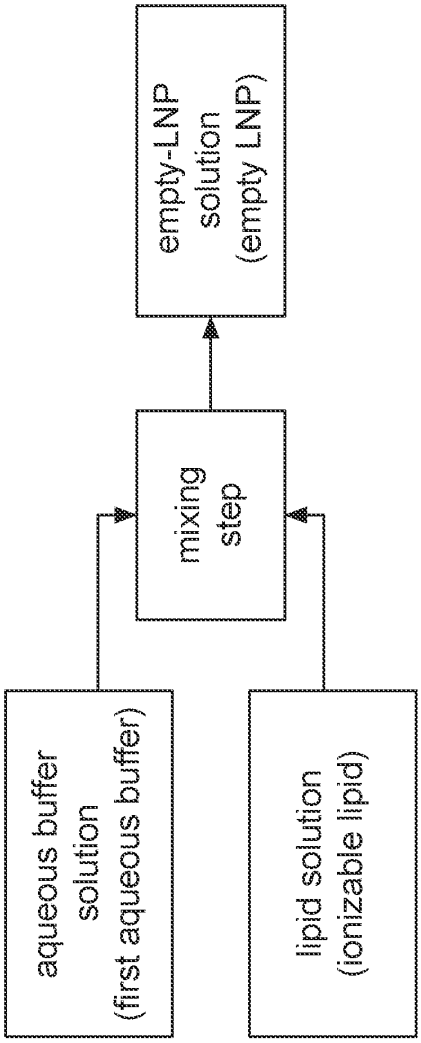

empty-LNP solution (empty LNP)
mixing step
aqueous buffer solution (first aqueous buffer)
lipid solution (ionizable lipid)

Fig. 2

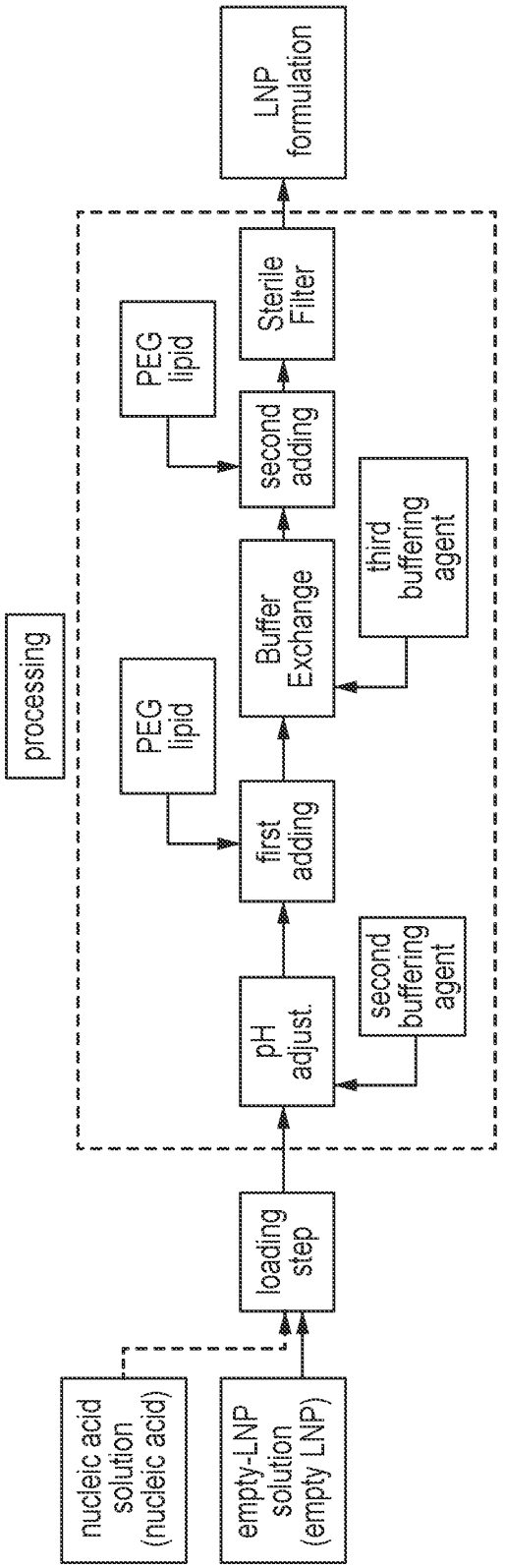

nucleic acid solution (nucleic acid)
empty-LNP solution (empty LNP)
loading step
processing
pH adjust.
second buffering agent
first adding
PEG lipid
Buffer Exchange
third buffering agent
second adding
PEG lipid
Sterile Filter
LNP formulation

Fig. 3

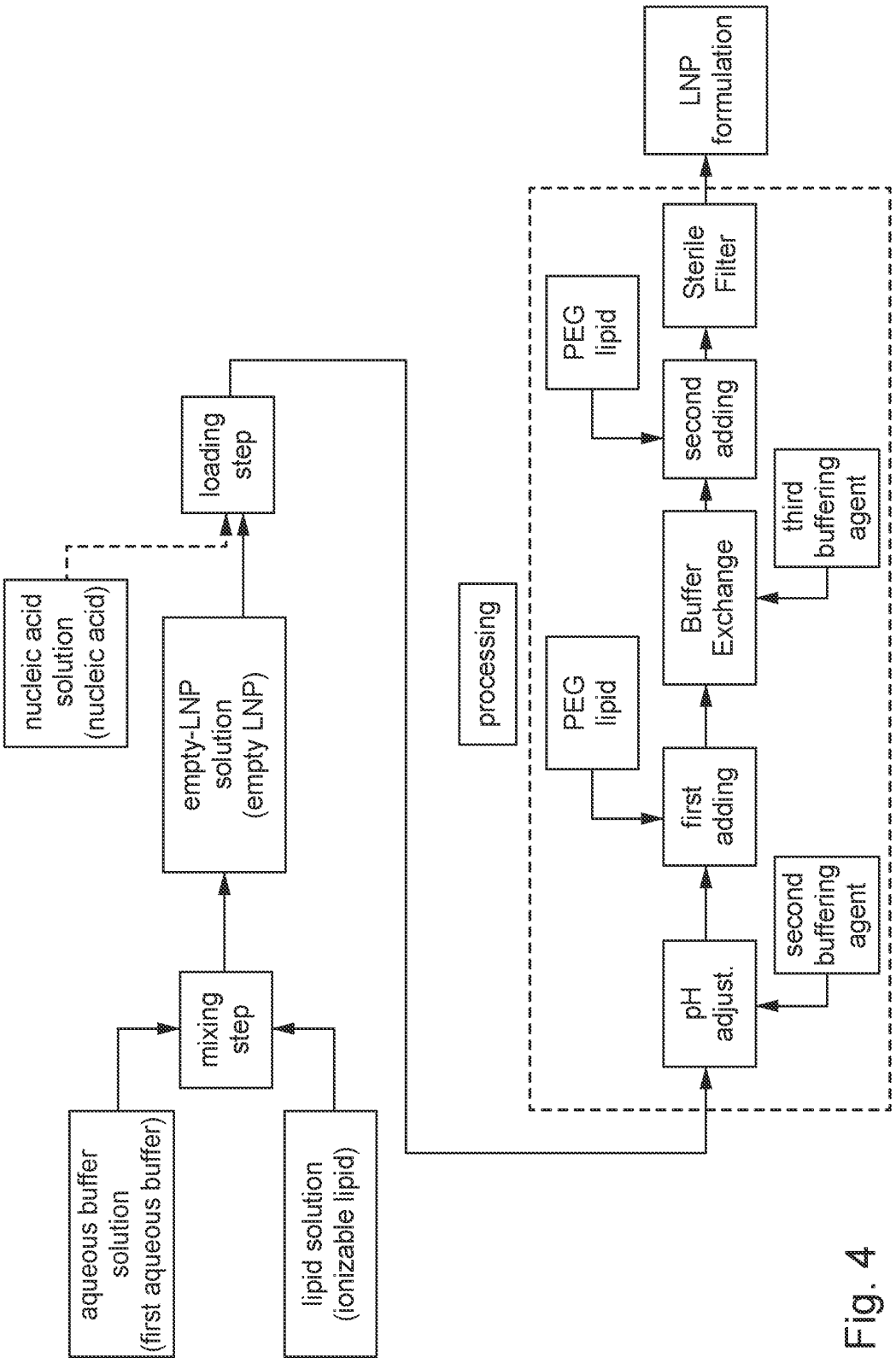

aqueous buffer solution (first aqueous buffer)
lipid solution (ionizable lipid)
mixing step
empty-LNP solution (empty LNP)
nucleic acid solution (nucleic acid)
loading step
processing
pH adjust.
second buffering agent
first adding
PEG lipid
Buffer Exchange
third buffering agent
second adding
PEG lipid
Sterile Filter
LNP formulation

Fig. 4