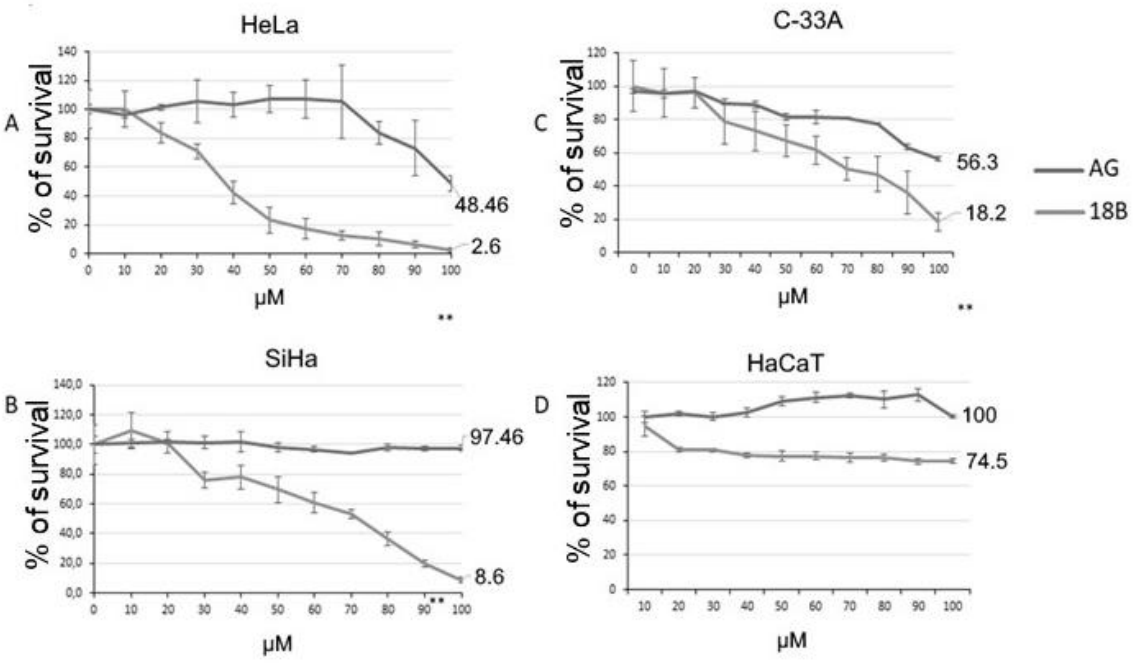

HeLa
A
% of survival
48.46
2.6
μM
**
C-33A
C
% of survival
56.3
18.2
μM
**
AG
18B
SiHa
B
% of survival
97.46
8.6
**
μM
HaCaT
D
% of survival
100
74.5
μM

FIGURE 1

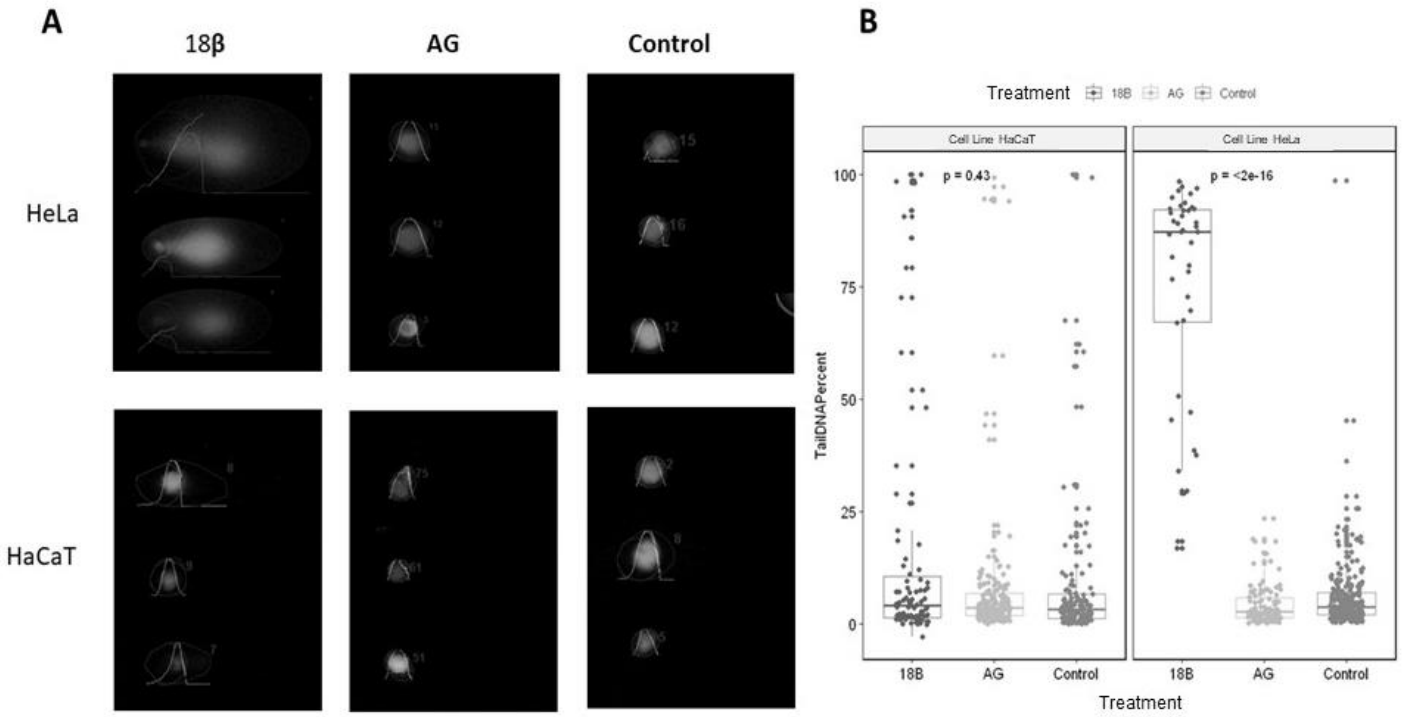

A
18β
AG
Control
HeLa
HaCaT
B
Treatment
18B
AG
Control
Cell Line HaCaT
Cell Line HeLa
p = 0.43
p = <2e-16
TailDNAPercent
100
75
50
25
0
18B
AG
Control
18B
AG
Control
Treatment

FIGURE 2

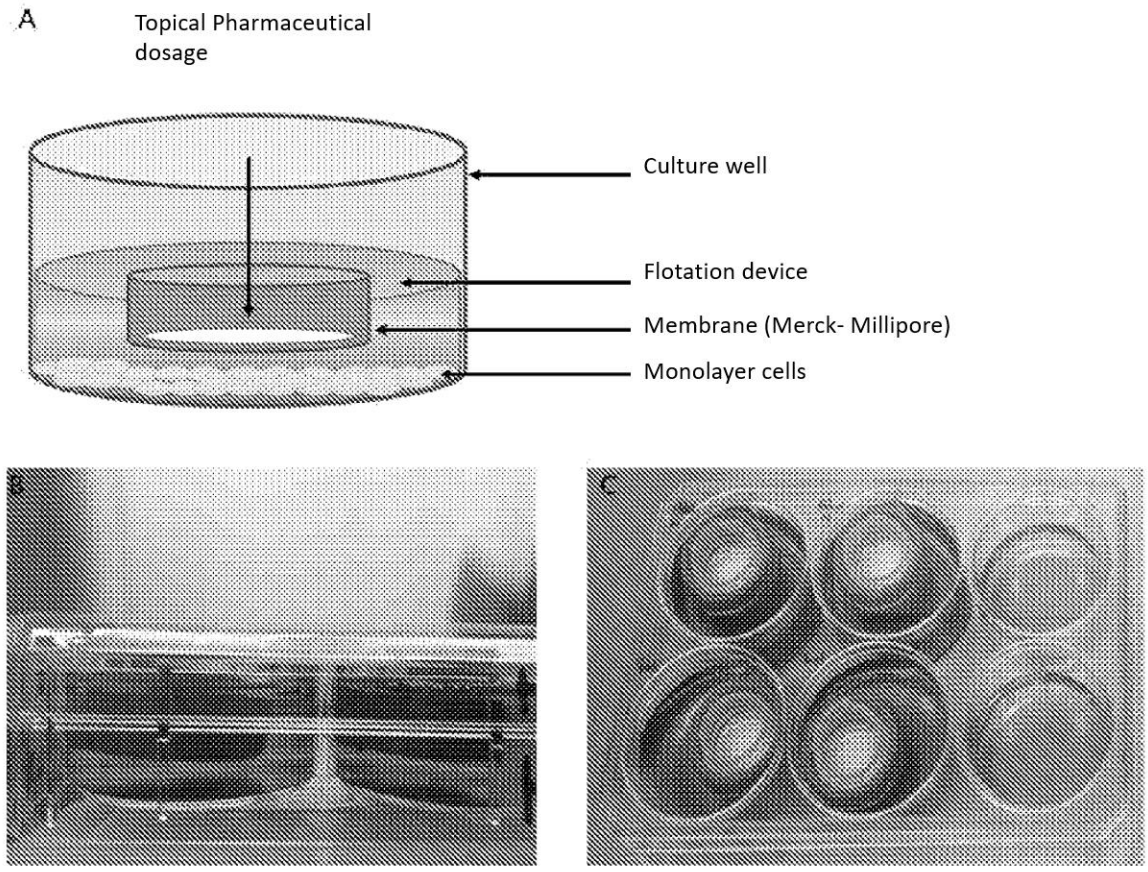

A
Topical Pharmaceutical dosage
Culture well
Flotation device
Membrane (Merck- Millipore)
Monolayer cells
B
C

FIGURE 3

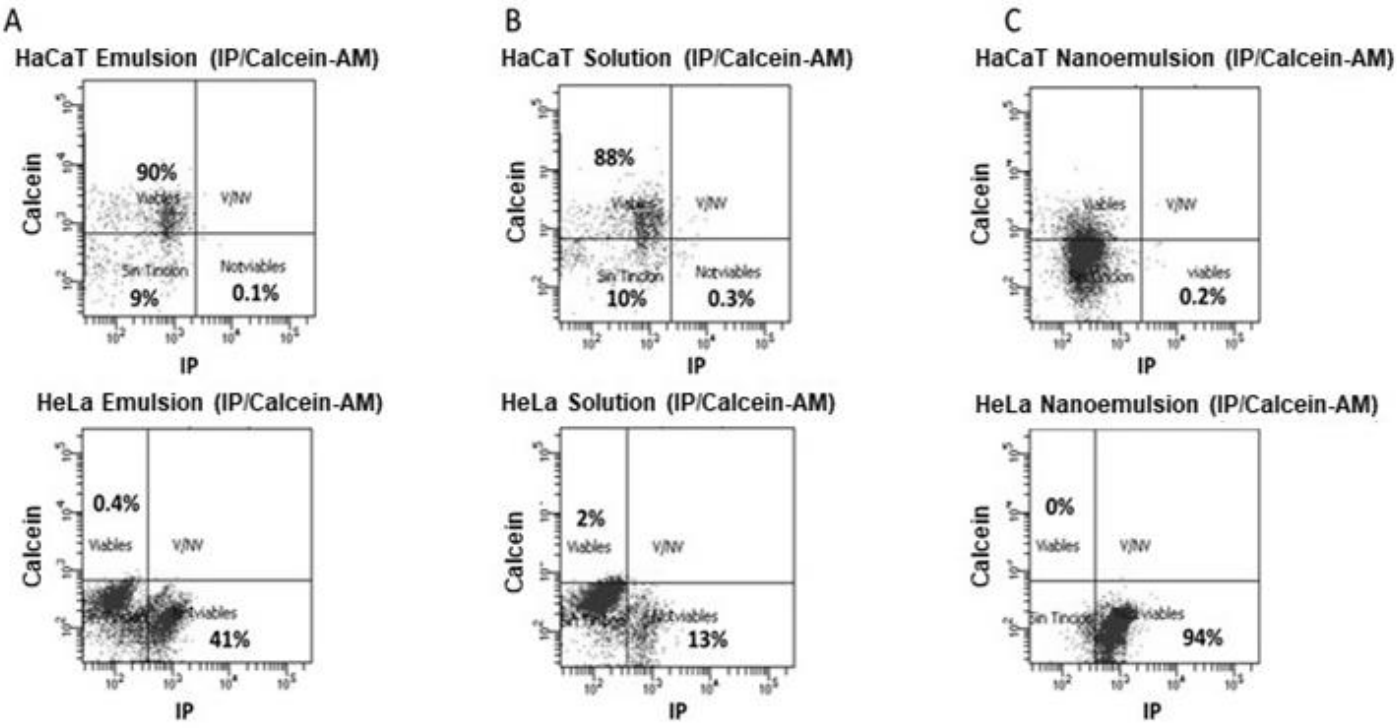

A
HaCaT Emulsion (IP/Calcein-AM)
Calcein
IP
90%
Viables
V/NV
Sin Tinción
9%
Notviables
0.1%
B
HaCaT Solution (IP/Calcein-AM)
Calcein
IP
88%
Viables
V/NV
Sin Tinción
10%
Notviables
0.3%
C
HaCaT Nanoemulsion (IP/Calcein-AM)
Calcein
IP
Viables
V/NV
Sin Tinción
viables
0.2%
HeLa Emulsion (IP/Calcein-AM)
Calcein
IP
0.4%
Viables
V/NV
viables
41%
HeLa Solution (IP/Calcein-AM)
Calcein
IP
2%
Viables
V/NV
Notviables
13%
HeLa Nanoemulsion (IP/Calcein-AM)
Calcein
IP
0%
Viables
V/NV
viables
94%

FIGURE 4

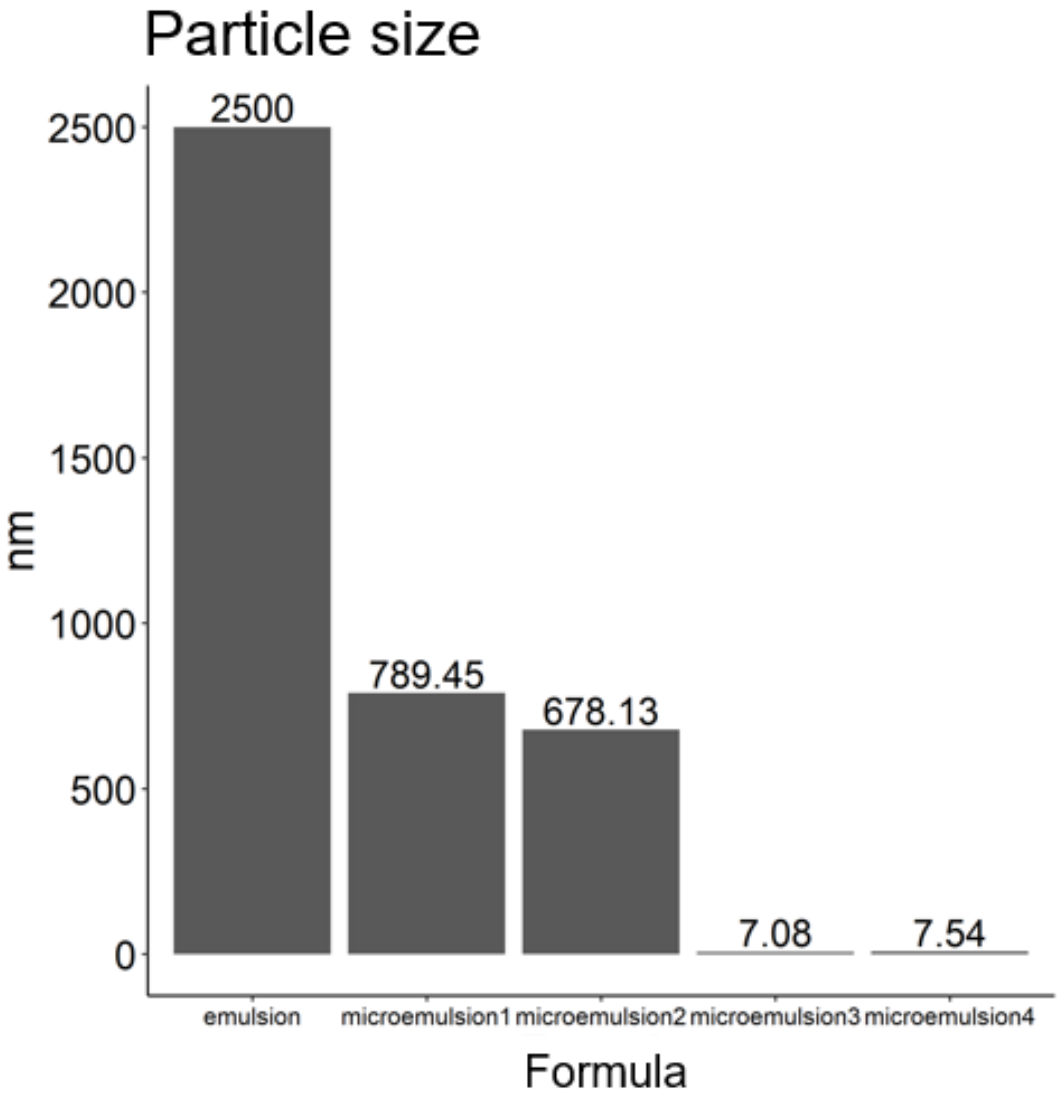

Particle size
2500
2000
1500
1000
500
0
nm
2500
789.45
678.13
7.08
7.54
emulsion
microemulsion1
microemulsion2
microemulsion3
microemulsion4
Formula

FIGURE 5

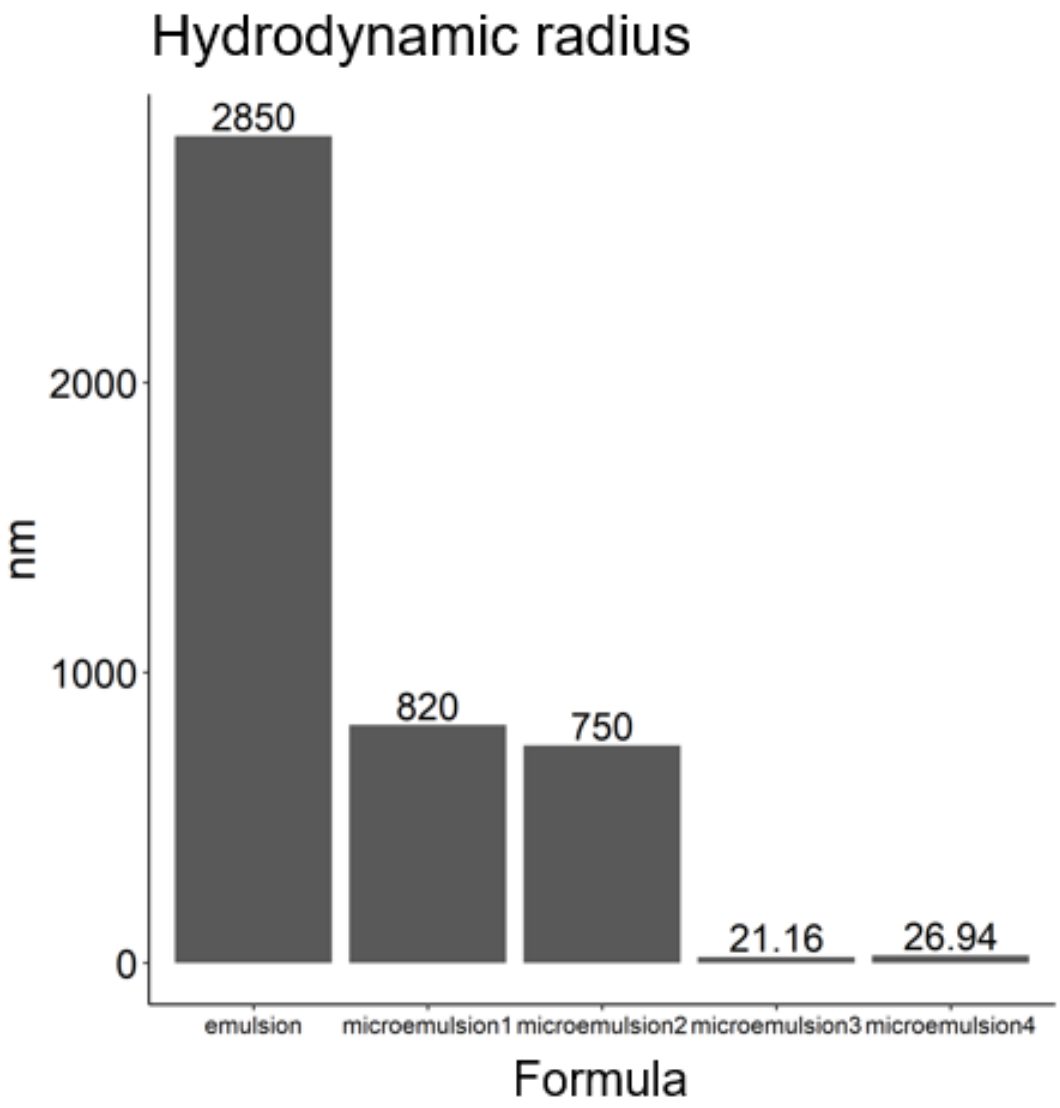

Hydrodynamic radius
2850
820
750
21.16
26.94
2000
1000
0
nm
emulsion
microemulsion1
microemulsion2
microemulsion3
microemulsion4
Formula

FIGURE 6

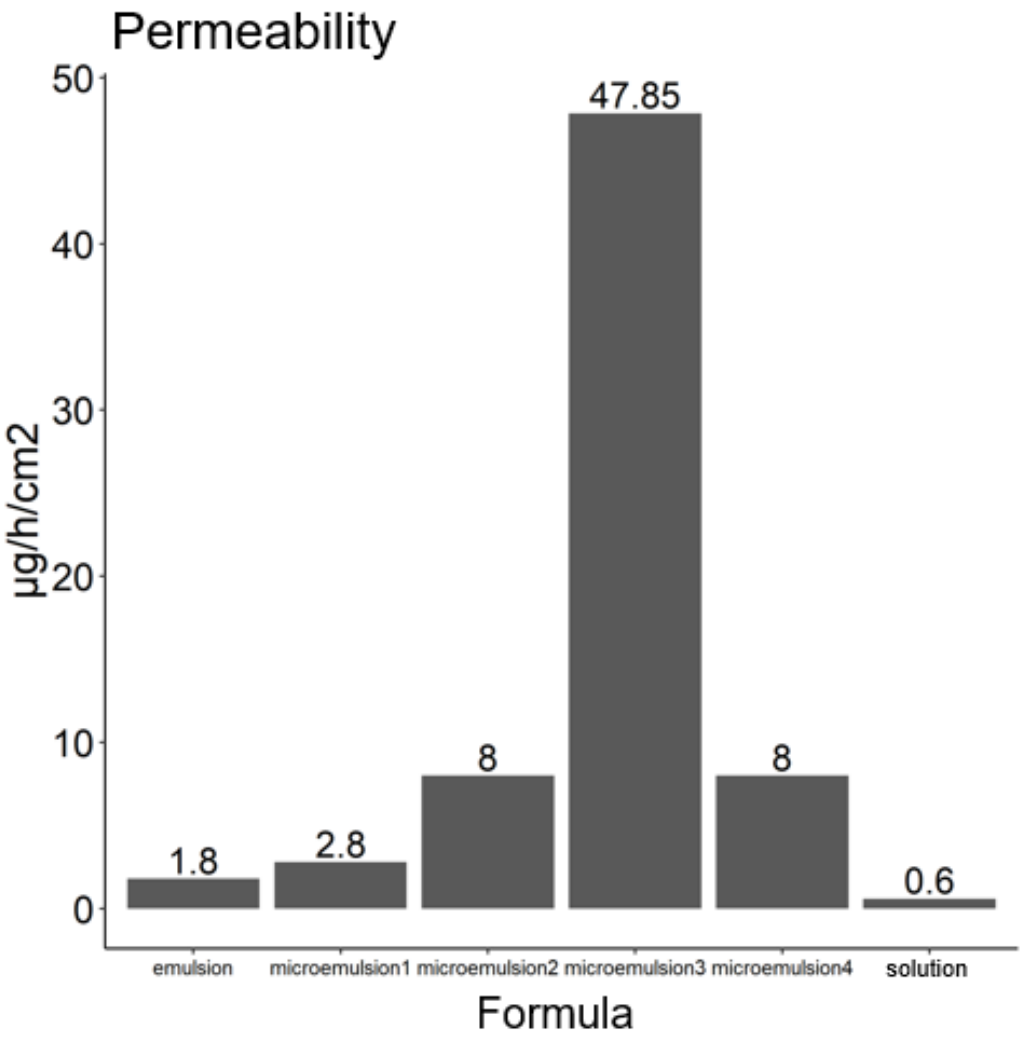

Permeability
50
40
30
20
10
0
µg/h/cm2
47.85
8
8
2.8
1.8
0.6
emulsion
microemulsion1
microemulsion2
microemulsion3
microemulsion4
solution
Formula

FIGURE 7

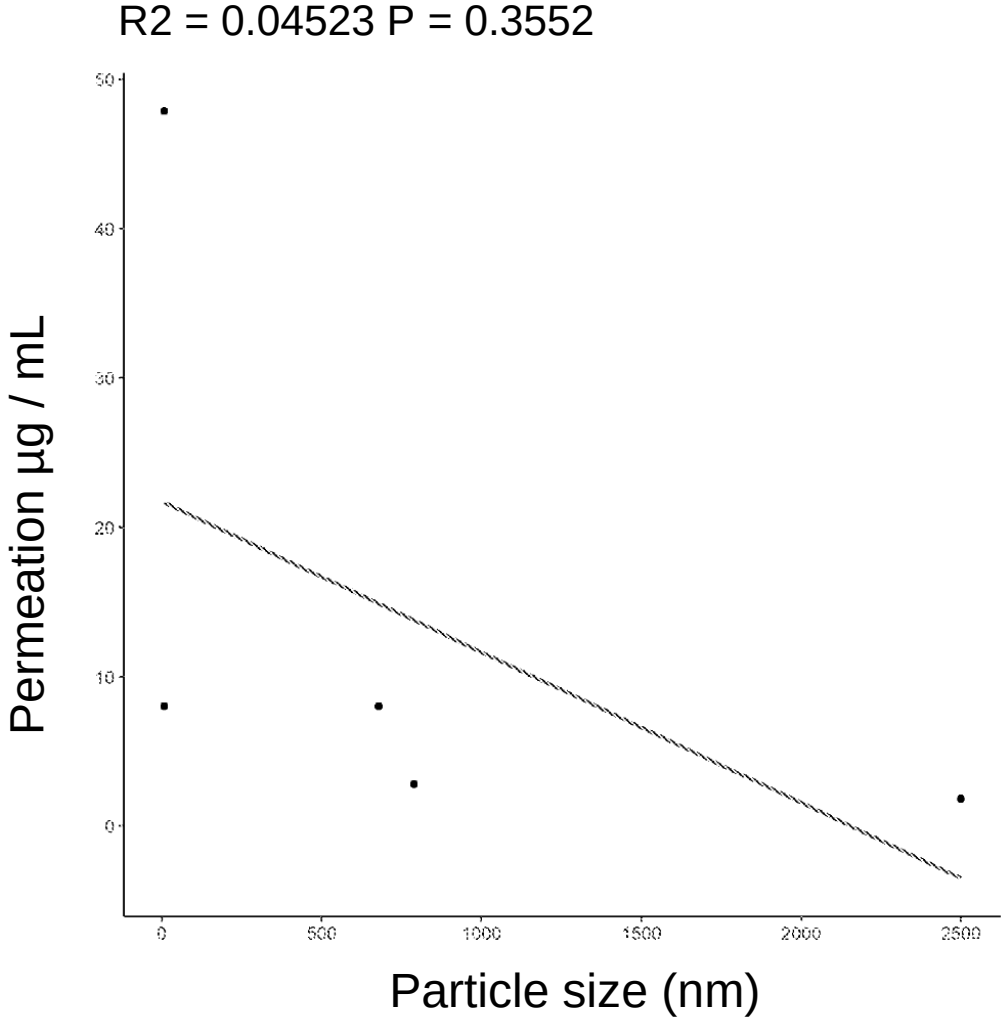

R2 = 0.04523 P = 0.3552
Permeation µg / mL
50
40
30
20
10
0
0
500
1000
1500
2000
2500
Particle size (nm)

FIGURE 8