FIGURE 1

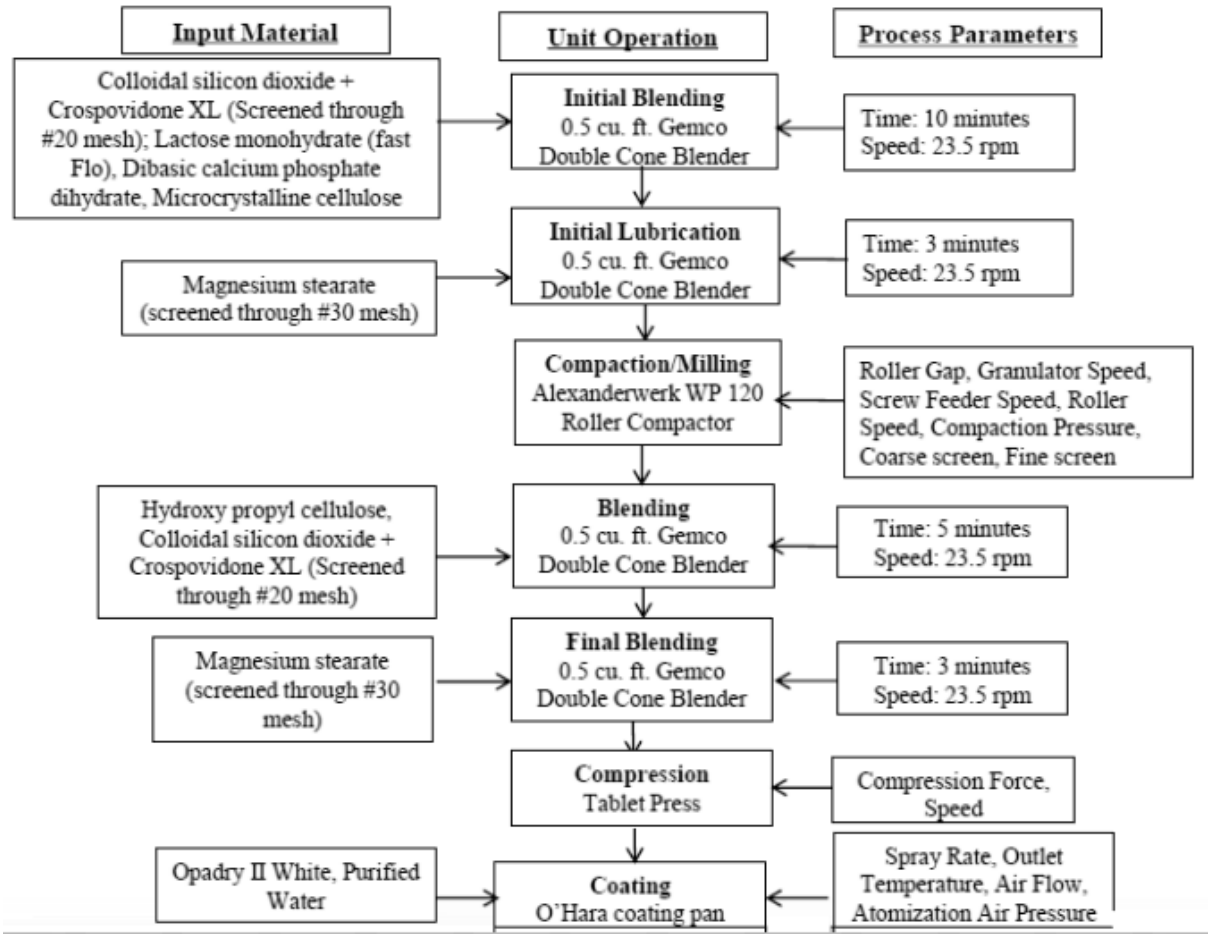

Input Material
Unit Operation
Process Parameters
Colloidal silicon dioxide + Crospovidone XL (Screened through #20 mesh); Lactose monohydrate (fast Flo), Dibasic calcium phosphate dihydrate, Microcrystalline cellulose
Initial Blending
0.5 cu. ft. Gemco Double Cone Blender
Time: 10 minutes
Speed: 23.5 rpm
Magnesium stearate (screened through #30 mesh)
Initial Lubrication
0.5 cu. ft. Gemco Double Cone Blender
Time: 3 minutes
Speed: 23.5 rpm
Compaction/Milling
Alexanderwerk WP 120 Roller Compactor
Roller Gap, Granulator Speed, Screw Feeder Speed, Roller Speed, Compaction Pressure, Coarse screen, Fine screen
Hydroxy propyl cellulose, Colloidal silicon dioxide + Crospovidone XL (Screened through #20 mesh)
Blending
0.5 cu. ft. Gemco Double Cone Blender
Time: 5 minutes
Speed: 23.5 rpm
Magnesium stearate (screened through #30 mesh)
Final Blending
0.5 cu. ft. Gemco Double Cone Blender
Time: 3 minutes
Speed: 23.5 rpm
Compression
Tablet Press
Compression Force, Speed
Opadry II White, Purified Water
Coating
O'Hara coating pan
Spray Rate, Outlet Temperature, Air Flow, Atomization Air Pressure

FIGURE 2

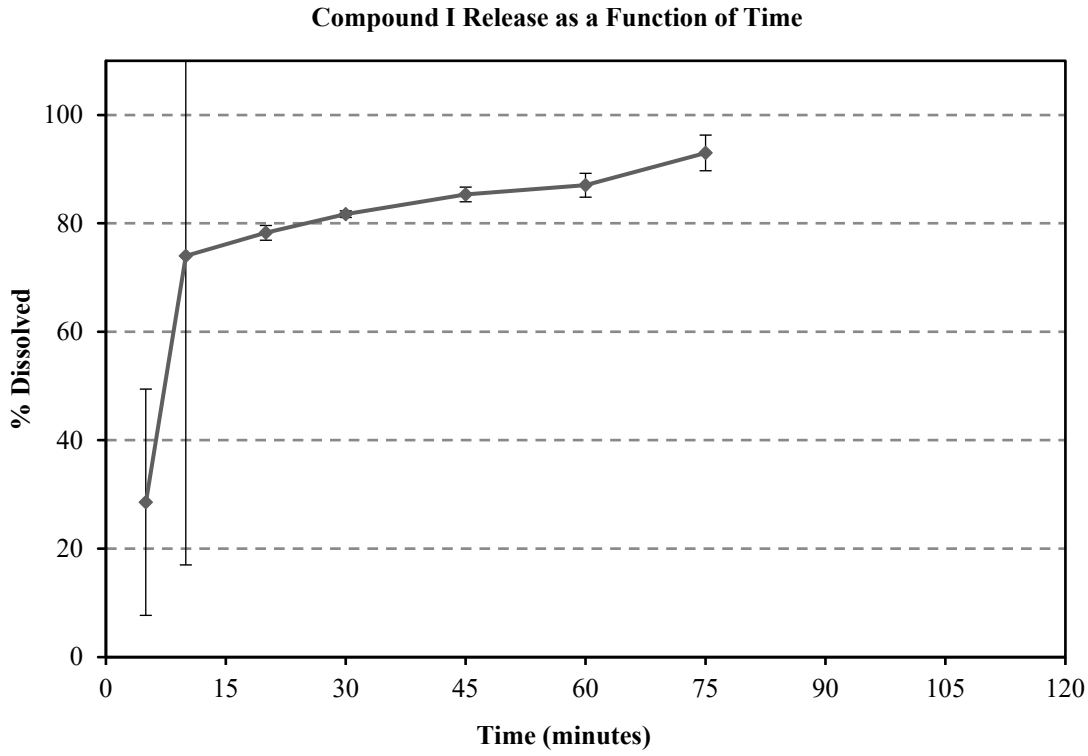

Compound I Release as a Function of Time
% Dissolved
100
80
60
40
20
0
0
15
30
45
60
75
90
105
120
Time (minutes)

FIGURE 3

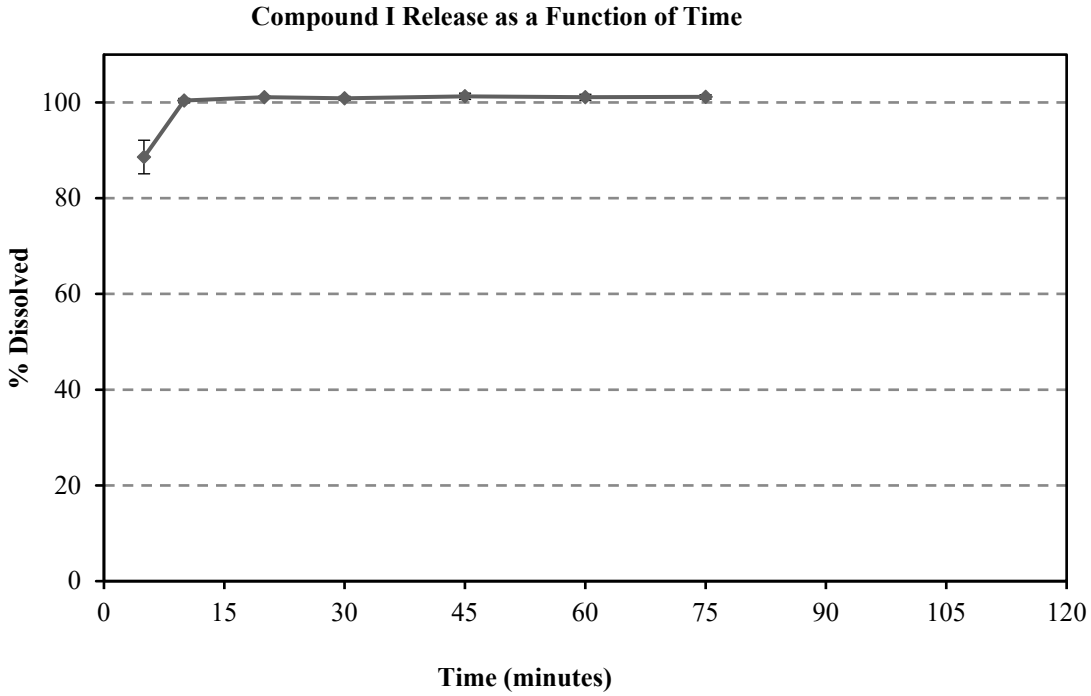

Compound I Release as a Function of Time
% Dissolved
100
80
60
40
20
0
0
15
30
45
60
75
90
105
120
Time (minutes)

FIGURE 4

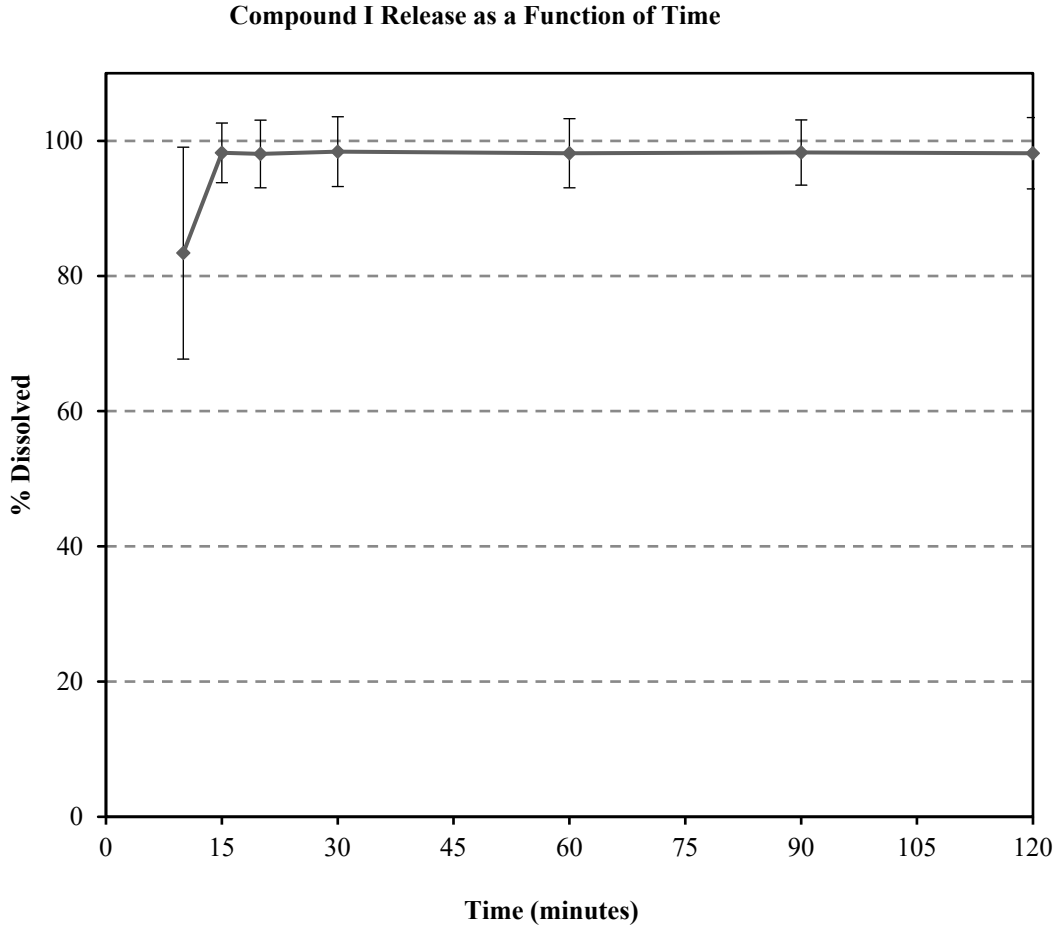

Compound I Release as a Function of Time
% Dissolved
100
80
60
40
20
0
0
15
30
45
60
75
90
105
120
Time (minutes)

FIGURE 5

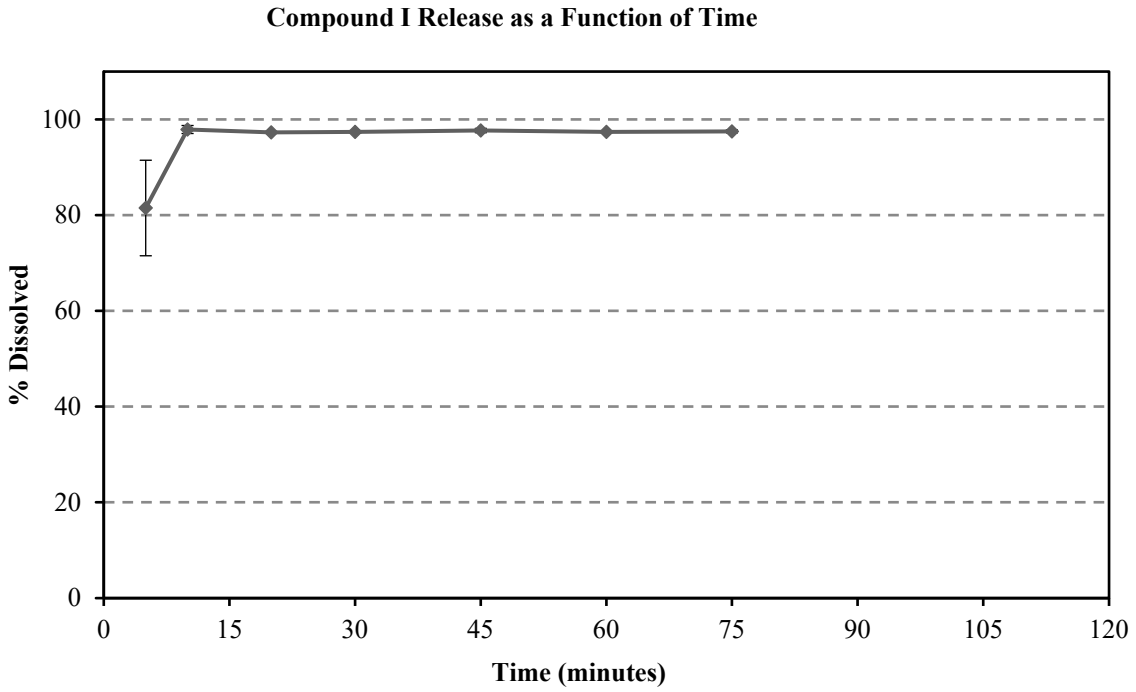

Compound I Release as a Function of Time
% Dissolved
100
80
60
40
20
0
0
15
30
45
60
75
90
105
120
Time (minutes)

FIGURE 6

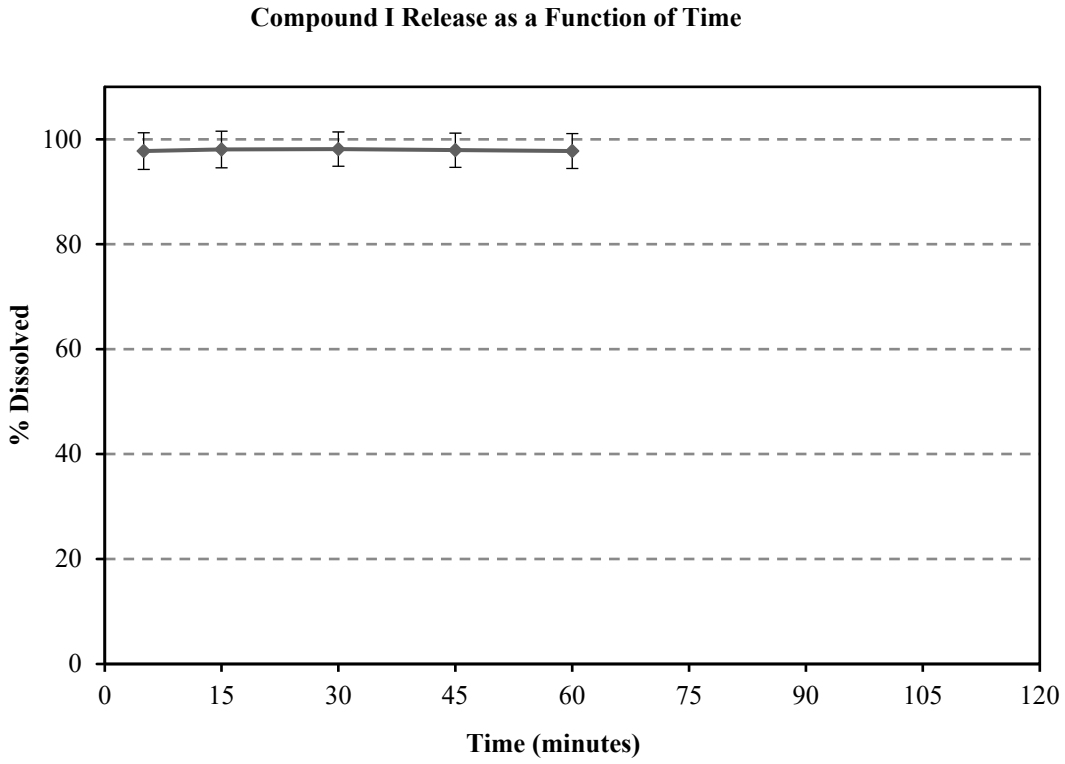

Compound I Release as a Function of Time
% Dissolved
100
80
60
40
20
0
0
15
30
45
60
75
90
105
120
Time (minutes)

FIGURE 7

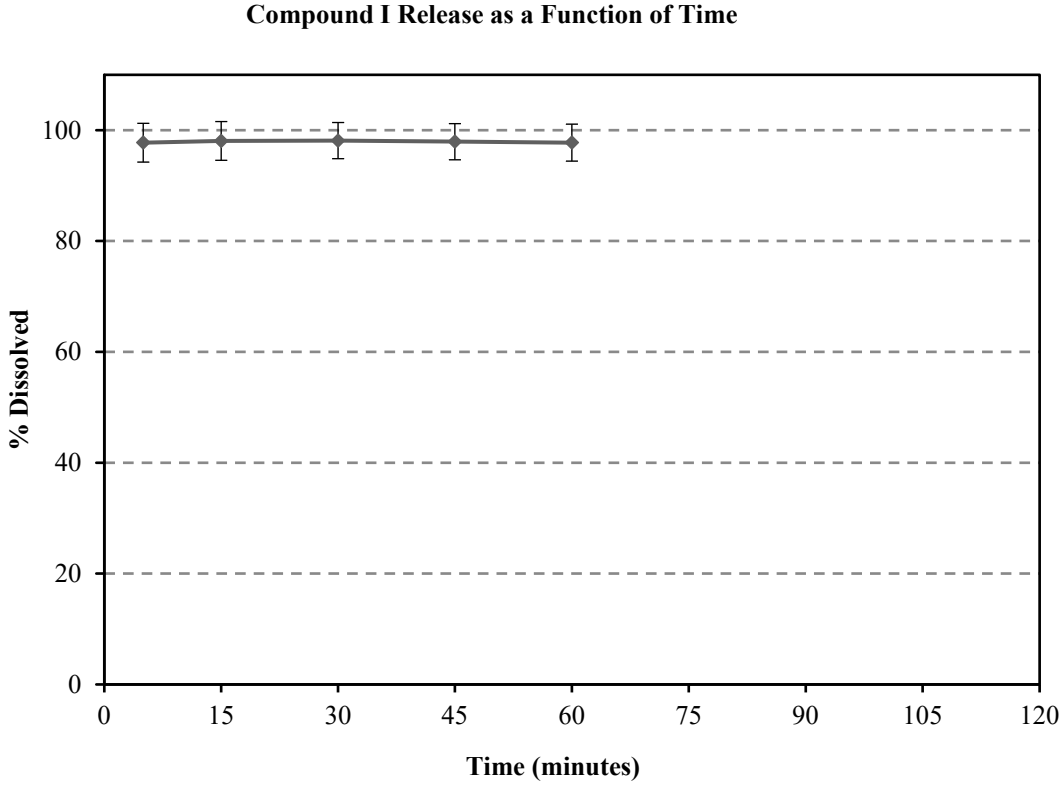

Compound I Release as a Function of Time
% Dissolved
100
80
60
40
20
0
0
15
30
45
60
75
90
105
120
Time (minutes)

FIGURE 8

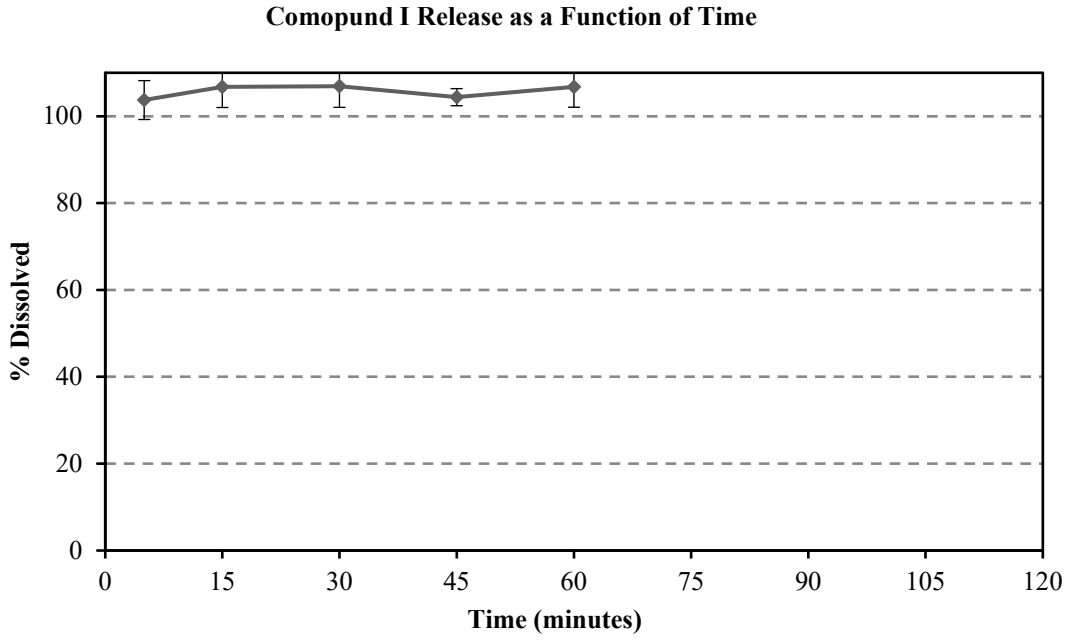
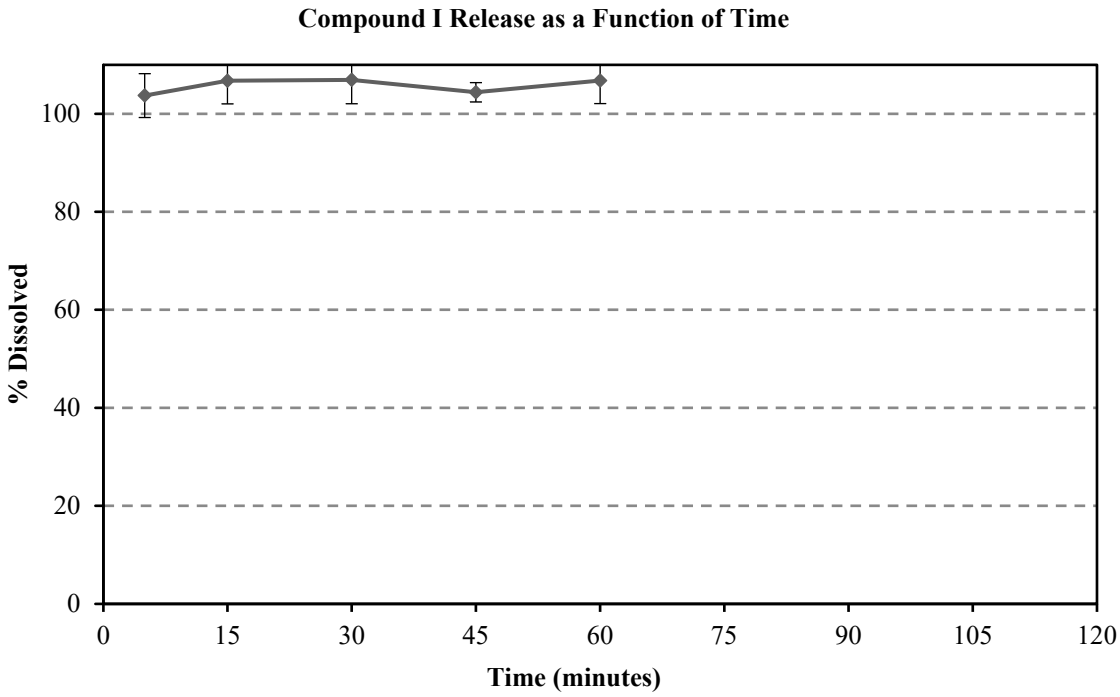

Comopund I Release as a Function of Time
% Dissolved
100
80
60
40
20
0
0
15
30
45
60
75
90
105
120
Time (minutes)

FIGURE 9


Compound I Release as a Function of Time
% Dissolved
100
80
60
40
20
0
0
15
30
45
60
75
90
105
120
Time (minutes)