

Supplementary data

Table S1. Linear equation of MG/ β CDs inclusion complexes at different temperatures derived from **Figure 5**.

Temperature (°C)	Y= mX + c			r ²		
	MG/ β CD	MG/DM β CD	MG/HP β CD	MG/ β CD	MG/DM β CD	MG/HP β CD
30	Y=0.0040X+0.0072	Y=0.0180X+0.0082	Y=0.0063X+0.0093	0.996	0.993	0.993
37	Y=0.0041X+0.0249	Y=0.0164X+0.0259	Y=0.0065X+0.0268	0.995	0.995	0.999
45	Y=0.0050X+0.0459	Y=0.0189X+0.0537	Y=0.0088X+0.0509	0.997	0.988	0.981

Table S2. The 95% confidence interval and the other statistic values for the slope and the y-intercept of linear regression of phase solubility study derived from **Figure 5**.

		Standard Error	t Stat	P-value	Lower 95%	Upper 95%
MG/βCD						
30°C	Intercept	0.0006	10.99	0.0003	0.0054	0.0090
	Slope	0.0001	37.24	0.0000	0.0037	0.0043
37°C	Intercept	0.0008	31.36	0.0000	0.0227	0.0271
	Slope	0.0001	31.14	0.0000	0.0037	0.0044
45°C	Intercept	0.0008	60.02	0.0000	0.0438	0.0480
	Slope	0.0001	39.33	0.0000	0.0046	0.0053
MG/DMβCD						
30°C	Intercept	0.0041	2.008	0.1151	-0.0031	0.0194
	Slope	0.0007	26.80	0.0000	0.0161	0.0198
37°C	Intercept	0.0031	8.415	0.0011	0.0174	0.0345
	Slope	0.0005	32.22	0.0000	0.0150	0.0178
45°C	Intercept	0.0057	9.510	0.0007	0.0380	0.0694
	Slope	0.0009	20.23	0.0000	0.0163	0.0215
MG/HPβCD						
30°C	Intercept	0.0014	6.466	0.0029	0.0053	0.0132
	Slope	0.0002	26.61	0.0000	0.0056	0.0069
37°C	Intercept	0.0006	44.06	0.0000	0.0251	0.0285
	Slope	0.0001	64.92	0.0000	0.0062	0.0068
45°C	Intercept	0.0033	15.32	0.0001	0.0418	0.0602
	Slope	0.0005	15.92	0.0000	0.0072	0.0103

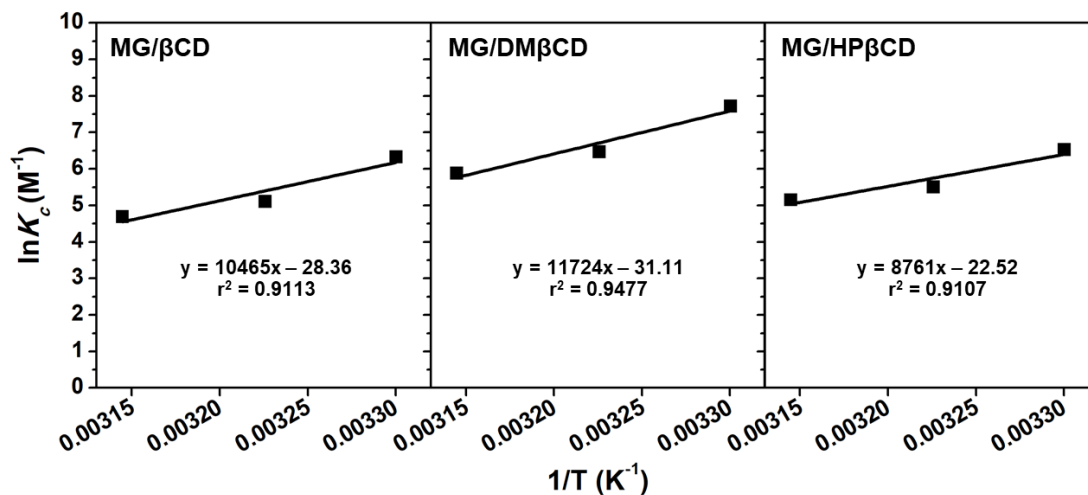


Figure S1. Van't Hoff plots of MG/βCDs inclusion complexes.

Table S3. The 95% confidence interval and the other statistic values for the slope and the y-intercept of linear regression of Van't Hoff plot derived from **Figure S1**.

	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
MG/βCD					
Intercept	10.53	-2.695	0.226	-162.1	105.4
Slope	3265	3.206	0.193	-31016	51947
MG/DMβCD					
Intercept	8.877	-3.504	0.177	-143.9	81.69
Slope	2753	4.258	0.147	-23259	46709
MG/HPβCD					
Intercept	8.846	-2.545	0.238	-134.9	89.88
Slope	2743	3.194	0.193	-26098	43621

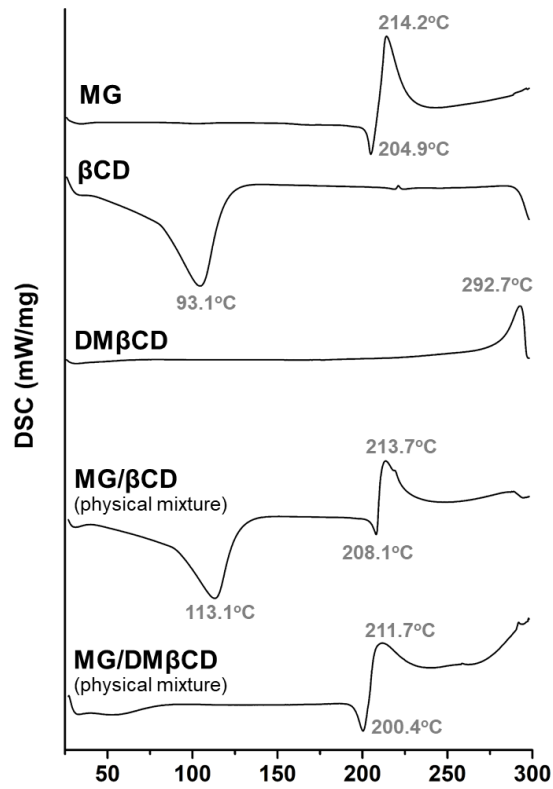


Figure S2. DSC thermogram of MG, β CD, DM β CD, and the physical mixtures MG/ β CD and MG/DM β CD. Note that prior to perform DSC, all compounds were not dissolved in deionized water and were not subsequently lyophilized.