

Supplementary information:

Table captions:

Table S1a. Optimized temperature program used for the determination of beryllium in 10% nitric acid using CS–ETAAS.

Table S1b. Optimized temperature program used for Ir coating on pyrocoated graphite platform.

Figure captions:

Fig. S1. Speciation plots of beryllium in aqueous medium at concentration of Be 1 μ M (a), 100 μ M (b) and 1mM (c).

Table S1a Optimized temperature program used for the determination of beryllium in 10% nitric acid using CS–ETAAS.

Step	Temperature/°C	Ramp/°C	Hold/s	Ar flow/mL min ⁻¹
Drying – 1	80	5	20	250
Drying – 2	110	10	10	250
Pyrolysis	1700	500	10	250
Atomization	2300	1500	5	0 (read)
Cleaning	2450	1500	4	250

Table S1b Optimized temperature program used for Ir coating on pyrocoated graphite platform.

Step	Temperature/°C	Ramp/°C	Hold/s	Ar flow/mL min ⁻¹
Drying – 1	90	5	40	250
Drying – 2	110	1	40	250
Drying – 3	130	1	40	250
Pyrolysis	1200	300	26	0
Atomization	2100	500	8	0
Cleaning	2100	0	45	100

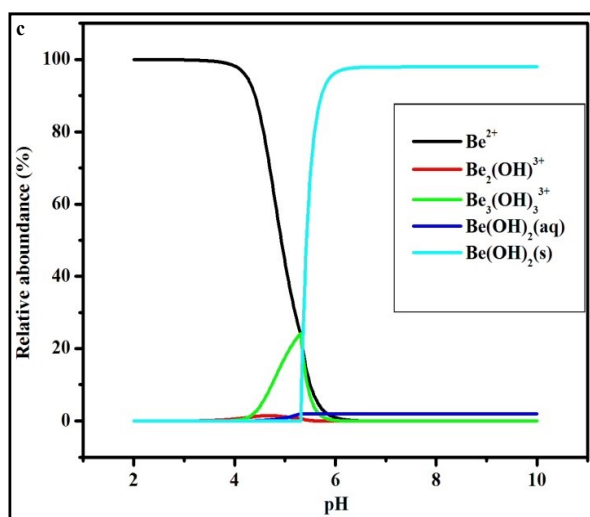
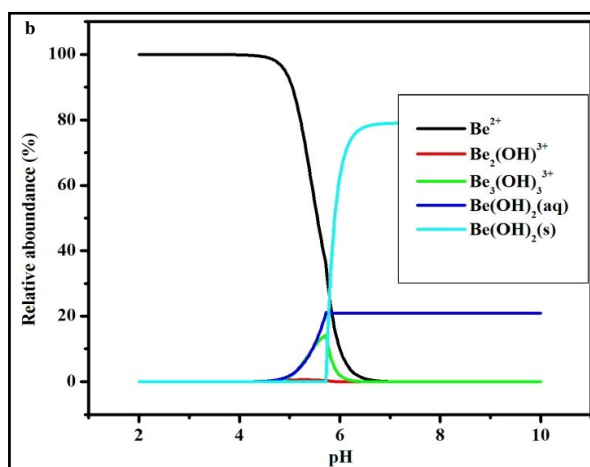
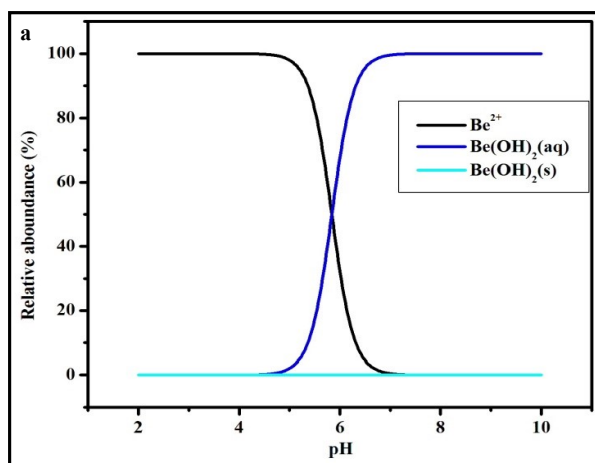


Fig. S1. Speciation plots of beryllium in aqueous medium at concentration of Be 1 μ M (a), 100 μ M (b) and 1mM (c).