

Table 1S Effect of coexisting ions in determination of Se (IV) by using present method, N = 6

Ions	Added as	Concentration of ion (mg L ⁻¹)	Recovery (%)
Na ⁺	NaCl	20,000	95.3 ± 3
K ⁺	KCl	6000	98.5 ± 2
Mg ²⁺	MgCl ₂	3000	99.2 ± 3
Ca ²⁺	CaCl ₂	3000	98.4 ± 2
Cl ⁻	NaCl	15,000	97.5 ± 2
Ag ⁺	AgNO ₃	50	97.2 ± 3.5
Al ³⁺	Al ₂ (SO ₄) ₃	100	97.4 ± 3.7
Zn ²⁺	ZnSO ₄	100	96.5 ± 2.6
Fe ³⁺	FeCl ₃	50	96.6 ± 3.4
SO ₄ ²⁻	Na ₂ SO ₄	2000	96.4 ± 2.8
CO ₃ ²⁻	CaCO ₃	3000	99 ± 3.7
NO ₃ ⁻	KNO ₃	4000	97.2 ± 2.8
Cr ³⁺	CrCl ₃	50	97.4 ± 2.6
Cu ²⁺	CuSO ₄	50	96.5 ± 3.4
Pb ²⁺	Pb (NO ₃) ₂	100	98.5 ± 3.6
PO ₄ ³⁻	Na ₃ PO ₄	1500	98.6 ± 2.8
Cd ²⁺	Cd (NO ₃) ₂	100	98.3 ± 3.3

Table 2S Comparative table for Se in infants milk and baby food ($\mu\text{g/Kg}$)

Source	Concentration	Area of research	Reference
Infant formula A	69.0 to 79.0	Spain	Chavez et al., 2007[54]
Infant formula B	68.0 to 75.5		
starting milk, follow-on milk, and soy-based infant formula	45.0 – 112	Spain	Vinas et al., 2005 [55]
Infant formula	131 \pm 6.84	Korea	Choi Younju et al., 2009 [56]
Cow milk-based formulae			
pre-term infants	103 \pm 19 77–121		
infant formulae for 0–6-month	68 \pm 29 42 to 109		
Cow milk-based 7–12 months	115 \pm 44 (84 to 146)	Argentina	Hevia et al., 2012 [57]
Soybased infant milk formulae	56 \pm 6 52 to 63		
Cow milk based infant formula	89 – 332		
Cow milk based follow up infant formula	22- 169	New Zealand	Tamari et al ., 2000 [58]
Soy based infant formula	29 – 169		
Soy based follow up infant formula	27 – 162		
Cow based Infant formula	106 \pm 8.35 28.0 – 184	Thailand	Nookabkaew et al., 2012 [59]
Soy based infant milk	88.5 \pm 10.3 4.52 - 169		
For 4 month and onward baby, with added iron and prebiotic	120 \pm 10.5	Turkey	Saracoglu et al.,2007 [60]
For 0–4 month, bottle formula	230 \pm 20		
For premature, low birth weight baby	250 \pm 0.20.5		
For newborn infant	150 \pm 10.6		
With added iron, milk based, follow-on formula for 6 month onwards baby	240 \pm 19.5		
Baby Cereals			
Iron fortified formula, with milk, cereal and fruited, spoon formula	130 \pm 10.4		
Cereal with milk and mixed vegetable	160 \pm 10.5		
Fruited cereal	164 \pm 20.2		
Cereal with milk and banana	160 \pm 10.5		
starting formula milk	72.4 -88.7	Present study	
Follow on formula milk	68.7 - 112		
Cereals with different matrices	63.5 -98.4		

