Table S1: Typical applications using HPLC-ICPMS and HPLC-HG-AFS

Application	**HPLC-ICPMS or HPLC-HG-ICPMS**	**HPLC-HG-AFS**
Biological		
Urine	[1-33]	[2, 3, 13, 14, 34, 35]
Rat urine	[36]	
Sheep urine	[37, 38]	
Blood-serum	[10, 12, 14, 17, 32, 39, 40]	[14, 41]
Saliva	[42]	
Hair	[10, 43]	
Gut microflora	[44, 45]	
Skin	[46]	
Finger nails	[10]	
Liver cytosol	[47]	
Terrestrial		
Atmospheric particles		[48-52]
Water	[2, 9, 28, 53-74]	[2, 34, 53, 75-78]
Leachates	[79, 80]	
Soil/sediments	[9, 81-90]	[91-93]
Grass	[94]	
Coal		
Fungus	[95, 96]	
Plants	[87, 94, 97-104]	[93, 105]
Ferns	[86, 106]	
Indian Cress	[99]	
Rice	[56, 81, 107-124]	
Wheat		[125]
Cereals	[126]	
Beverages (soft drink, beer, juice, wine)	[8, 127-129]	[130, 131]
Dietary supplements	[132]	
Apples	[114]	
Mushrooms	[133, 134]	
Tomatoes		
Castor beans	[135]	
Radishes	[136]	
Spinach	[114]	

Mung beans	[137]	
Pepper	[138]	
White mustard	[139]	
Carrots	[140, 141]	
Herbal medicines	[142]	
Wheat	[107, 143, 144]	
Chicken	[81]	[145]
Baby foods		[146]
Birds eggs	[53]	[53]
Earthworms	[147-149]	
Invertebrates	[101]	
Rodents	[102]	
Plankton	[150, 151]	
Fish	[109, 152]	
algae	[109]	
Sponge	[109]	
Mollusca	[109, 153]	
Frog		
Marine		
Water	[53, 154-156]	[53]
Sediment	[53, 77, 154, 157-160]	
Phytoplankton	[74, 159, 161-164]	
Angiosperms	[158-160, 165-168]	
Seaweeds	[74, 95, 166, 169-187]	[188]
Se anemone	[189]	
Mollusca	[53, 60, 74, 159, 160, 165, 177, 178, 182, 190-196]	[153, 197-199]
Crustaceans	[153, 157-160, 165, 166, 170, 173, 182, 192, 198, 200]	
Fish	[60, 61, 74, 81, 84, 107, 157, 159, 160, 165, 178, 182, 192, 193, 196, 201, 202]	[153, 197, 198]
Fish sauce	[203]	
Polychaetes	[159, 160, 166, 204, 205]	
Pinnipeds	[206]	
Sea birds	[206]	
Sea turtles	[206]	

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