

**Supplementary Material to “Quantitative determination of Cd in single hair strands using laser ablation
inductively coupled plasma mass spectrometry (LA-ICP-MS)”**

Table S3 – Blank performance monitoring results.

Batch No.	Blank Type	Cadmium Concentration (µg/g) (Measured)	Limit of Quantitation (LOQ) (µg/g)	Control Chart Mean (µg/g)	±3σ Range (µg/g)	Meets Standard (Yes/No)	Contamination Source	Remarks
B001	Procedural Blank	0.012	0.07	0.010	0.004-0.016	Yes	None	Reagent purity qualified
B002	Procedural Blank	0.015	0.07	0.010	0.004-0.016	Yes	None	Reagent purity qualified
B003	Procedural Blank	0.018	0.07	0.010	0.004-0.016	No	Nitric acid reagent residue	Concentration after re- preparation: 0.011 µg/g
B004	Procedural Blank	0.011	0.07	0.010	0.004-0.016	Yes	None	Reagent purity qualified
B005	Transport Blank	0.008	0.07	0.009	0.003-0.015	Yes	None	No contamination during transport
B006	Transport Blank	0.010	0.07	0.009	0.003-0.015	Yes	None	No contamination during transport

Batch No.	Blank Type	Cadmium Concentration (µg/g) (Measured)	Limit of Quantitation (LOQ) (µg/g)	Control Chart Mean (µg/g)	±3σ Range (µg/g)	Meets Standard (Yes/No)	Contamination Source	Remarks
B007	Field Blank	0.013	0.07	0.011	0.005-0.017	Yes	None	Clean sampling environment
B008	Field Blank	0.014	0.07	0.011	0.005-0.017	Yes	None	Clean sampling environment
B009	Procedural Blank	0.009	0.08	0.011	0.005-0.017	Yes	None	Reagent purity qualified
B010	Procedural Blank	0.012	0.08	0.011	0.005-0.017	Yes	None	Reagent purity qualified
B011	Transport Blank	0.007	0.08	0.009	0.003-0.015	Yes	None	No contamination during transport
B012	Field Blank	0.012	0.08	0.011	0.005-0.017	Yes	None	Clean sampling environment
B013	Procedural Blank	0.016	0.09	0.012	0.006-0.018	Yes	None	Reagent purity qualified
B014	Procedural Blank	0.019	0.09	0.012	0.006-0.018	No	Unclean polyethylene container	Concentration after re-preparation: 0.012 µg/g
B015	Procedural Blank	0.013	0.09	0.012	0.006-0.018	Yes	None	Reagent purity qualified