

## Electronic Supplementary Information

### Results for the cell viability assays

**Supplementary Table S1.** Results of the MTT test for mitochondrial activity of cells exposed to different concentrations of the A&MS-Fe in-house standard, in the presence of 600  $\mu\text{M}$  of ascorbic acid.

Fe concentration	Absorbance			Average	Blank corrected	%
1 mg L <sup>-1</sup>	0.512	0.722	0.812	0.682	0.613	104
5 mg L <sup>-1</sup>	0.543	0.692	0.713	0.649	0.580	98
10 mg L <sup>-1</sup>	0.639	0.524	0.638	0.600	0.531	90
15 mg L <sup>-1</sup>	0.810	0.627	0.700	0.712	0.643	109
20 mg L <sup>-1</sup>	0.668	0.629	0.624	0.640	0.571	97
Blank	0.699	0.537	0.680	0.660	0.591	100
Blank	0.729	0.650	0.663			
30 mg L <sup>-1</sup>	0.649	0.644	0.497	0.597	0.528	89
40 mg L <sup>-1</sup>	0.501	0.536	0.579	0.539	0.470	80
50 mg L <sup>-1</sup>	0.618	0.561	0.582	0.587	0.518	88
plate blank	0.073	0.066	0.068	0.069		

**Supplementary Table S2.** Results for the sulforhodamine B (SRB) assay for protein content for cells exposed to different concentrations of the A&MS-Fe in-house standard, in the presence of 600  $\mu\text{M}$  of ascorbic acid.

Fe concentration	Absorbance			Average	Blank corrected	%
1 mg L <sup>-1</sup>	2.742	2.725	2.920	2.796	2.745	110
5 mg L <sup>-1</sup>	2.733	2.626	2.789	2.716	2.665	107
10 mg L <sup>-1</sup>	2.818	2.915	2.710	2.814	2.763	111
15 mg L <sup>-1</sup>	2.774	2.736	2.686	2.732	2.681	108
20 mg L <sup>-1</sup>	2.847	2.617	2.549	2.671	2.620	105
Blank	2.648	2.545	2.487	2.543	2.492	100
Blank	2.569	2.493	2.518			
30 mg L <sup>-1</sup>	2.725	2.763	2.764	2.751	2.700	108
40 mg L <sup>-1</sup>	2.782	2.693	2.677	2.717	2.666	107
50 mg L <sup>-1</sup>	2.787	2.518	2.694	2.666	2.615	105
plate blank	0.051	0.049	0.052	0.051		