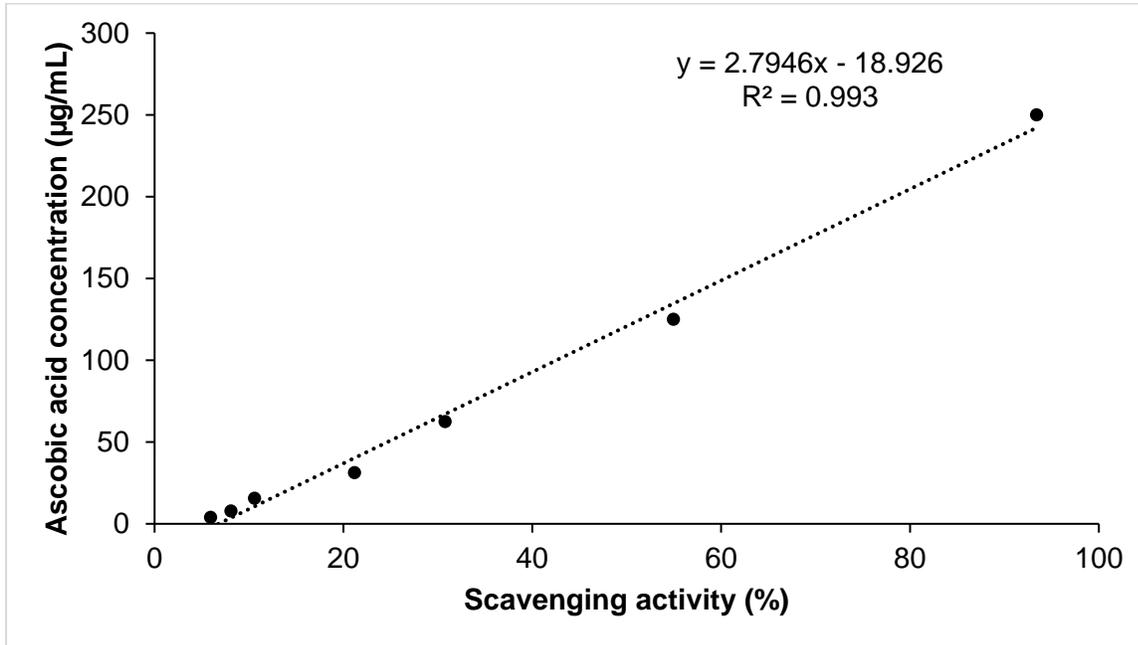
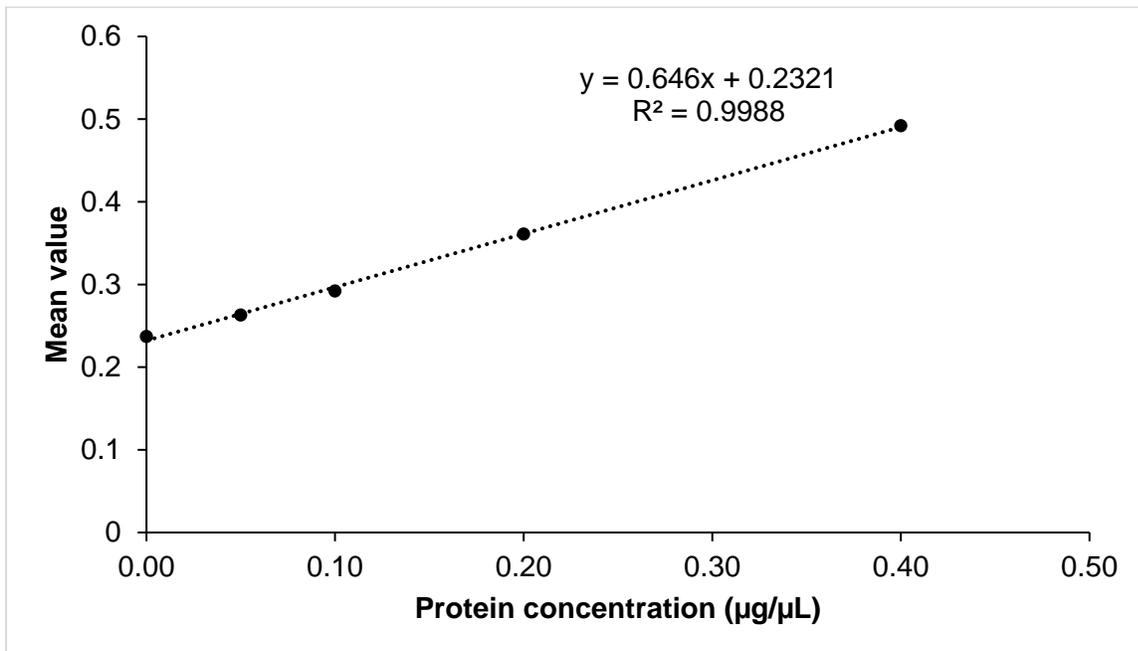


### Supplementary materials

**Figure S1.** Standard curve of ABTS radical scavenging activity plotted against varied concentrations of vitamin C.



**Figure S2.** Standard curve for bovine serum albumin



**Table S1.** Differentiated melan-a cell scoring

<b>Benchmark</b>	<b>Score</b>
Cell size lower than 50 $\mu\text{m}$ with pigmentation lower than 50% of cytoplasmic area with a low distribution.	1+
Cell size lower than 50 $\mu\text{m}$ with pigmentation equal or higher than 50% of cytoplasmic area with a higher distribution.	2+
Cell size larger than 51 $\mu\text{m}$ with pigmentation throughout the cytoplasmic area.	3+
Cell size larger than 51 $\mu\text{m}$ with densely packed pigmentation throughout the cytoplasmic area.	4+