LavaPep Interfering Compounds

At concentrations in sample greater than listed, the reagents could affect the accuracy of the LavaPep Kit. Note that a 1/400 or 1/1000 dilution in water of most sample preparations would be sufficient to dilute chemicals below the upper limit. It is recommended that samples and standards are prepared in the same buffer.

Compound	Manufacturer	Recommended limit in LavaPep kit
SDS	BDH	0.05%
CHAPS	BioRad	0.01%
NP40	Sigma	0.005%
thiourea	Sigma	500 mM
urea	BDH	500 mM
triton X 100	UT Packard	0.005% v/v
tween 20	Sigma	0.01% v/v
dithiothreitol	BioRad	1.5 mM
tributyl phoshine	Sigma	5 µM
Methyl methanethiol sulfonate	Sigma	1 mM
Triethylammonium biocarbonate	Sigma	2.5 mM
Tris (2-carboxy-thyl) phosphine	Sigma	500 µM
iodoacetamide	Sigma	50 mM
calcium chloride	BDH	500 µM
tris-HCl	Sigma	500 µM
NH_4CO_3	Sigma	500 µM
HCl	Univar	500 µM
TFA	Aldrich	0.005%
Formic acid	Univar	0.01%
ACN	Unichrom	0.5%

Table 1. Acceptable maximum levels of various chemicals and reagents for LavaPep Peptide Quantification kit.