



## LavaDigest Interfering Compounds

### Acceptable maximum levels of chemicals for LavaDigest kit.

The acceptable upper limit of interfering compounds commonly used in preparation of protein samples for digestions is provided in the table below.

Chemicals	Manufacturer	Recommended limit of chemicals found in 100 $\mu$ L of protein samples in the LavaDigest assay
<b>SDS</b>	BDH	0.02%
<b>triton X 100</b>	UT Packard	0.001% v/v
<b>tween 20</b>	Sigma	0.002% v/v
<b>Guanidine-HCl</b>	BDH	500 $\mu$ M
<b>CHAPS</b>	BioRad	0.02%
<b>NaOH</b>	BDH	10 mM
<b>dithiothreitol</b>	BioRad	4 mM
<b>iodoacetamide</b>	Sigma-Aldrich	3 mM
<b>Urea</b>	Sigma-Aldrich	1 M
<b>calcium chloride</b>	BDH	5 mM
<b>tris-HCl</b>	Sigma-Aldrich	2.5 mM

Acceptable maximum was defined as difference in the constant decay rate ( $k_2$ ) driven from trypsin-digested BSA sample less than 20% coefficient of variance between control and the tests containing interfering chemicals.

