

Mass Spectrometry Compatible Sample Preparation Guide

Listed below are the cut-offs for the following buffer, detergent and salt concentrations for samples to be submitted for MALDI analysis.

Buffer, Detergent or Salt	Concentration (mM)
Alkali metal salts	20 mM
Ammonium Acetate	20 mM
Ammonium Bicarbonate	20 mM
BICINE	50 mM
CHAPS	0.1 mM
Dithiothreitol	250 mM
Glycerol	>1%
Guanidine, HCl	>1M
HEPES	100 mM
LDAO	4 mM
NaHPO ₄	10 mM
NH ₄ HCO ₃	50 mM
NP-40	1 mM
Phosphate Buffer	25-50 mM
SDS	0.35 mM
Sodium Acetate	50 mM
Sodium Azide	15 mM
TRIS	50-100 mM
Triton X-100	1.6 mM
Urea	1 mM
Zwittergent, 3-16	2.6 mM

MS Compatible stains:

Coomassie stain (Colloidal Coomassie G250)

Silver stain (requires destaining if used)

Sypro Ruby (and other Sypro stains)

If your buffer system, detergent, salt additive or stain are not listed here, please inquire for information regarding sample treatment and compatibility.