## Gel Handling

The following table contains some helpful considerations to assure optimal results:

Beware of	Dust particles contain high levels of proteinaceous contaminations, e.g.
Contaminations	keratines (hair and skin particles, fuzzy clothes) therefore carry out all staining
	steps in a closed dish, use chemicals and solutions dedicated to "mass
	spectrometry". Thoroughly wash anything that will come into contact with your
	sample (i.e. gel apparatus, staining trays, gel excising implements, gel storage
	equipment, and Eppendorf vials), filter solutions if necessary. Wear powder free
	gloves and lab coats at all times during sample preparation, cut the bands/spots
	under a laminar flow hood and do not touch the vials at any stage of the
	sample preparation without gloves.
Use Compatible	There are several methods applied to visualize proteins after gel electrophoresis.
Protein	Unfortunately not all of them are compatible with the mass spectrometric
Staining	analysis. Coomassie staining techniques are in general ideal for these
Techniques	investigations. However, there are some cases, when higher sensitivity is
	needed. Note, that silver staining applying glutaraldehyde in the sensitizing
	solution is not compatible with mass spectrometry! For this reason we
	recommend to use an alternative silver staining protocol (see Download Section).
	In case of silver staining do not overstain the gel, keep the background clear!
	According to our experiences, overstaining reduces the yield of identifiable
	peptides from the sample substantially! A sensitive as well as fully MS compatible
	detection of proteins can be achieved by the use of the fluorescent dye SYPRO
	Rubry.
Minimize Empty	Keep the volume of the empty gel matrix as small as possible, cut away
Gel Volume	unstained gel materials.
Fresh Sample	Submit the samples as soon as possible, freeze them only, if you can guarantee,
	that they do not thaw during transfer to our lab.