



ICP Application Form



ICP – OES

ICP – MS

APPLICANT	Date		Research Group	
	Phone			
	e-mail			
	Name	<i>To fill in by technician</i>		
	Depart.			Internal prices
	Professor			Other UPC members and external prices

SAMPLE	Number				Hazard Properties		Storage		
	Applicant Ref. ⁽¹⁾				None		Irritating	20 -30 °C	
					Toxic		Explosive	Fridge (5 °C)	
	Internal Ref. ⁽²⁾				Corrosive		Flammable	Freezer (-20 °C)	
					Other			Light protection	
	File name ⁽²⁾					Samples must:			
	Return ⁽³⁾	Yes		No		<ul style="list-style-type: none"> • Be previously filtered through 0.2µm filter • Not contain HF 			
(1)	If there are more than one sample, check the internal sample list								
(2)	To fill in by the technician								
(3)	Samples will be stored maximum 15days. Afterwards, they will be disposed								

ANALYSIS	Sample Description								
	Elements to analyze*						Other metals – anions		
	Element	Conc.	Units	Element	Conc.	Units	Element	Conc.	Units
	<i>*For extra space, go to the laboratory notebook</i>								
	Acid and approximate concentration added						Description of the blank solution		

Additional Information

<p>Signatures:</p> <p style="text-align: center;">Professor Applicant</p>	<p>Analysis Date:</p> <p style="text-align: center;">Technician</p>
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General Instructions to prepare the sample and additional information:

- In order to use ICP – OES:

All the samples must be in aqueous medium. No solid samples will be analyzed. Instead, solid samples should be digested by the applicant before bringing them to the ICP.

All the **samples should be filtered** through a 0.2 μm filter in order to avoid the presence of micro-precipitates that could damage the equipment. Additionally, all the **sampling tubs should be cleaned** with HNO_3 2% and ultrapure water **before pouring the sample** in them.

The maximum concentration of elements should be less than 5%. In the case the concentration is higher, the sample should be diluted with HNO_3 2%.

In order to avoid any damage to the nebulizer, the torch and the spray chamber, **HF must not be present in the samples**. In the case the presence of HF cannot be avoided by any possible means, the applicant should let the technician know about it. **Please, note that not providing this information could cause serious damage to the equipment.**

- In order to use ICP – MS:

All the samples must be in aqueous medium. No solid samples will be analyzed. Instead, solid samples should be digested by the applicant before bringing them to the ICP.

All the **samples should be filtered** through a 0.2 μm filter in order to avoid the presence of micro-precipitates that could damage the equipment. Additionally, **all the sampling tubs should be cleaned** with HNO_3 2% and ultrapure water **before pouring the sample** in them.

The **maximum concentration of salt** should be less than **0.1%**. In the case the salt concentration is higher than 0.1%, the sample should be diluted with HNO_3 2%.

In order to avoid any damage to the nebulizer, the torch and the spray chamber, **HF must not be present in the samples**. In the case the presence of HF cannot be avoided by any possible means, the applicant should let the technician know about it. **Please, note that not providing this information could cause serious damage to the equipment.**