

**ANEXO II**  
**VITRINAS DE FILTRO: ESTIMACIÓN DE SUSTANCIAS QUÍMICAS Y RÉGIMEN DE USO**

**LABORATORIO 1: METALURGIA FÍSICA**

TYPE OF HANDLING	CHEMICAL NAME	TYPE OF CONTAINER	OPENED/CLOSED	DILUTION (%)	TEMPERATURE (°C)	HANDLING FREQUENCY	HANDLING QUANTITY	DURATION (MIN)
ETCHING	HYDROFLUORIC ACID	BEAKER	Opened	10%	22°C	From 1 to 2 handlings/month	From 76 to 150 ml (or g)	From 46 to 60 min.
ETCHING	NITRIC ACID	BEAKER	Opened	20%	22°C	From 1 to 2 handlings/month	From 76 to 150 ml (or g)	From 46 to 60 min.
ELECTROPHORESIS	SULFURIC ACID	BATH	Opened	25%	22°C	From 3 to 4 handlings/month	From 501 to 1000 ml (or g)	From 46 to 60 min.
ELECTROPHORESIS	PHOSPHORIC ACID	BATH	Opened	10%	22°C	From 3 to 4 handlings/month	From 501 to 1000 ml (or g)	From 46 to 60 min.
ELECTROPHORESIS	CHROMIC ACID	BATH	Opened	10%	22°C	From 3 to 4 handlings/month	From 501 to 1000 ml (or g)	From 46 to 60 min.
DRYING	TOLUENE	BEAKER	Opened	100%	22°C	From 3 to 4 handlings/month	From 11 to 25 ml (or g)	From 61 to 90 min.
DIPPING	ISOPROPANOL	BEAKER	Opened	98%	22°C	From 5 to 10 handlings/month	From 151 to 250 ml (or g)	From 21 to 30 min.
ELECTROPHORESIS	PERCHLORIC ACID	BEAKER	Opened	15%	5°C	≤ 1 handling/month	From 151 to 250 ml (or g)	From 46 to 60 min.
ETCHING	ACETIC ACID	BEAKER	Opened	5%	22°C	≤ 1 handling/month	From 76 to 150 ml (or g)	From 3 to 5 min.
DISSOLUTION	AMMONIUM HYDROXIDE sol	BEAKER	Opened	30%	22°C	From 501 to 1000 ml (or g)	From 501 to 1000 ml (or g)	From 46 to 60 min.
CLEANING	HYDROCHLORIC ACID	BEAKER	Opened	5%	22°C	From 1 to 2 handlings/month	From 76 to 150 ml (or g)	From 46 to 60 min.

**LABORATORIO 3: PRÁCTICAS DOCENTES**

TYPE OF HANDLING	CHEMICAL NAME	TYPE OF CONTAINER	OPENED/CLOSED	DILUTION (%)	TEMPERATURE (°C)	HANDLING FREQUENCY	HANDLING QUANTITY	DURATION (MIN)
ANALYSIS	ACETIC ACID	BEAKER	Opened	5%	22°C			
ANALYSIS	ACETONE	BEAKER	Opened	100%	22°C			
ANALYSIS	AQUA REGIA	BEAKER	Opened	100%	22°C			
ANALYSIS	HYDROCHLORIC ACID	BEAKER	Opened	100%	22°C			
ANALYSIS	NITRIC ACID	BEAKER	Opened	100%	50°C			
ANALYSIS	OXALIC ACID	BEAKER	Opened	10%	22°C			
ANALYSIS	SULFURIC ACID	BEAKER	Opened	10%	22°C			
ANALYSIS	AMMONIA	BEAKER	Opened	100%	22°C			
ANALYSIS	CAUSTIC SODA (NaOH)	BEAKER	Opened	10%	22°C			
ANALYSIS	HYDROFLUORIC ACID	BEAKER	Opened	1%	22°C			
ANALYSIS	FERRIC CHLORIDE (FeCl3)	BEAKER	Opened	10%	22°C			
ANALYSIS	ETHANOL	BEAKER	Opened	100%	22°C			
ANALYSIS	ISOPROPYL ALCOHOL	BEAKER	Opened	100%	22°C			
ANALYSIS	COPPER SULPHATE (CuSO4)	BEAKER	Opened	20%	22°C			
ANALYSIS	Sb2O3	BEAKER	Opened	2%	22°C			
ANALYSIS	SnCl2	BEAKER	Opened	5%	22°C			

**LABORATORIO 7: TECNOLOGÍAS DE UNIÓN**

TYPE OF HANDLING	CHEMICAL NAME	TYPE OF CONTAINER	OPENED/CLOSED	DILUTION (%)	TEMPERATURE (°C)	HANDLING FREQUENCY	HANDLING QUANTITY	DURATION (MIN)
ANALYSIS	ABSOLUTE ALCOHOL	CRUCIBLE	Opened	0-20%	20-120	From 5 to 10 handlings/month	5-500 ml	0-300
CALCINATION	ACETIC ACID	FILTRATION SYSTEM						
CLEANING	ACETONE	BATH						
CONCENTRATION	ETHANOL	POT						
DISSOLUTION	HYDROCHLORIC ACID	CAP						
FILTRATION	HYDROGEN FLUORIDE							
ETCHING	HYDROGEN PEROXIDE							
	METHANOL							
	NITRIC ACID							
	PERCHLORIC ACID							
	PHOSPHORIC ACID							
	STYRENE							
	PROPANOL 2							
	SULFURIC ACID							

**LABORATORIO 8B: TECNOLOGÍAS DE UNIÓN**

TYPE OF HANDLING	CHEMICAL NAME	TYPE OF CONTAINER	OPENED/CLOSED	DILUTION (%)	TEMPERATURE (°C)	HANDLING FREQUENCY	HANDLING QUANTITY	DURATION (MIN)
BOTTLE		100%	22°C	≤ 1 handling/month	From 76 to 150 ml (or g)	From 11 to 20 min.		
ERLENMEYER FLASK		Closed						
GRADUATED CYLINDER		Opened						
PAPER								
BEAKER								
BATH		Opened						
CRUCIBLE		Opened						
PAPER								
BATH		Closed						