

Materials List for:

Laser-induced Breakdown Spectroscopy: A New Approach for Nanoparticle's Mapping and Quantification in Organ Tissue

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Materials

Name	Company	Catalog Number	Comments
Laser nanosecond Nd:YAG	Quantel	Brillant	5 nsec pulse width, wavelength 1,064 nm
Spectrometer	Andor Technology	Shamrock 303	with 1,200 lines/mm blazed at 300 nm grating
Detector ICCD	Andor Technology	Istar	2 nsec temporal resolution
LIBS Unit	ILM		Homemade Instrumentation
Gd-based nanoparticles	Nano-H		particles
HEPES	Sigma-Aldrich	H4034	for particle's dilution
CaCl ₂	Sigma-Aldrich	21108	for particle's dilution
NaCl	Sigma-Aldrich	S5886	for particle's dilution
Mice	Charles River	depending of animal breeding	
Isoflurane	Coveto / Virbac		for anaesthesia - Isofluranum
Isopentane	Sigma-Aldrich	59060	to froze the sample slowly
Liquid nitrogen	Air Liquide		to cool down the isopentane
Cryostat	Leica	CM-3050S	to slide the samples
Petri dishes	Dutscher	353004	to stick the sample