

Materials List for:

# A Novel Technique for Raman Analysis of Highly Radioactive Samples Using Any Standard Micro-Raman Spectrometer

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## Materials

Name	Company	Catalog Number	Comments
(standard) acrylic glass <b>capsule body</b>	home made		
(standard) <b>UV fused silicate Window</b> 20 mm x 2 mm	Edmund Optics GmbH, Karlsruhe (Germany)	45464	
(standard) acrylic glass <b>Plunger</b>	home made		
(standard) fluoropolymer elastomer <b>sliding O ring</b> 10 x 2 mm			
(standard) <b>Epoxi resin</b> : uhu schnellfest 2k epoxit kleber	UHU (germany)	45725	
(standard) <b>External circlip</b> DIN 471 40 mm			
(standard) hexagon socket head cap <b>pull screw</b> DIN 912 M4 x 30 mm			
(standard) aluminum SEM <b>pin stub mount</b>	Plano GmbH, Wetzlar (Germany)	G301	
(standard + high pressure) 1.4301 stainless steel <b>metal ring slide</b> with blocking screw	home made		
(standard + high pressure) <b>Electrician tape</b>			
(standard + high pressure) fluoropolymer elastomer <b>tightening O ring</b> 40 x 4 mm			
(standard + high pressure) <b>double-sided adhesives tabs</b>	Plano GmbH, Wetzlar (Germany)	G3347	
(standard + high pressure) <b>Funnel-shaped bag</b> ; Sac PVC 300 µ TA Diam 40/185 x 540 mm Tronc conique	Plastunion, Bondy (France)	4.123	
(High pressure) polyether ether ketone <b>high pressure capsule body</b>	home made		
(High pressure) <b>High pressure capsule window</b> : Ø12.7 x 3 mm UVFS Broadband Precision Window, Uncoated	THORLABS GMBH, Dachau (Germany)	WG40530	
(High pressure) <b>High pressure ball valve</b> : Kükenhahn, Edelstahl, 6 mm Rohrverschraubung, Cv 1,6	Swagelok, Forst(Germany)	SS-6P4T-MM	
(High pressure) 1.4301 stainless steel <b>sample holder</b>	home made		

(High pressure) 1.4301 stainless steel <b>high pressure plunger</b>	home made		
(High pressure) 1.4301 stainless steel <b>adapter</b>	home made		
(High pressure) 1.4301 stainless steel <b>closing flange</b>	home made		
(High pressure) 2 x fluoropolymer elastomer <b>capsule O ring</b> 10*1 mm			
(High pressure) fluoropolymer elastomer <b>inlet O Ring</b> 6*1 mm			
(High pressure) 6 x DIN 7991 M4 * 25 mm <b>bottom sink screw</b>			
(High pressure) 6 x DIN 7991 M4 * 18 mm <b>top sink screw</b>			
(High pressure) <b>Polyoxymethylen flat ring</b> 13/10*1 mm	home made		