

Materials List for:

# In Situ Monitoring of Diffusion of Guest Molecules in Porous Media Using Electron Paramagnetic Resonance Imaging

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URL: <https://www.jove.com/video/54335>

DOI: [doi:10.3791/54335](https://doi.org/10.3791/54335)

## Materials

Name	Company	Catalog Number	Comments
X-Band spectrometer	Bruker	E580	
Spectrometer software	Bruker	Xepr 2.6b.108	
gradient coil system	Bruker	E540 GCX2	
imaging resonator	Bruker	TMHS 1007	
micro-classic pipette controller	Brand	25900	
microcapillary ringcaps 50 µl	Hirschmann	9600150	inner diameter 0.5 mm
EPR sample tube 2 mm inner diameter	Bruker	ER 221TUB/2	
EPR sample tube 4 mm inner diameter	Bruker	ER 221TUB/4	
heat-shrink tubing DERAY-IB	DSG-Canusa	2210048952	4.8 mm/2.4 mm, 2:1, 95 °C - 200 °C
heat gun	Bosch	PHG 600-3	
PTFE band	VWR	332362S	width 12 mm
test tube			length 16 cm, diameter 1.5 cm
beaker			250 ml, height 9 cm, diameter 7 cm
capillary tube sealing	Fisher Scientific	02-678	
pressure cooker, 3 L with trivet	Beem	Vital-X-Press V2, F1000675	
magnetic stirrer with heating element			
ethanol (p.a.)			
ethanol (techn.)			
syringe	Hamilton	1705	0.05 ml, custom length: 20 cm
Pasteur capillary pipette			length 23 cm
data analysis software	homemade		Available for download at <a href="http://www.uni-konstanz.de/drescher/">http://www.uni-konstanz.de/drescher/</a> software. Requires Matlab.
UKON1-GEL	kindly provided by Prof. Sebastian Polarz, Martin Wessig and Andreas Schachtschneider		See references 16, 18, 19 for the synthesis