Filtering a Sample through a 3 KDa Filter Tube		CHENOMX
C002		CHIENOMX
Version: 1.0	Date: 25-Sep-2018	
Version: 1.1	Date: 02-Oct-2018	

# Filtering a Sample through a 3 KDa Filter Tube

**Purpose** This procedure provides information on how to filter samples for NMR Analysis.

#### **Materials**

Supplies	Equipment
Prepared AMICON ultra 0.5ml - SKDa Filter tube	Microcentrifuge
,	Prepared AMICON ultra 0.5ml -

### **Procedure**

- 1. Preparing an AMICON ultra 0.5ml- 3KDa filter tube for filtration. Ensure the filter is not dried.
- 2. Filter the sample through the prewashed filter tube:

Step	Details			
1.	Discard any remaining water from the sample reservoir (upper part) before adding any sample.			
2.	Pipette the sample into the sample reservoir (upper part) of the AMICON ultra 0.5ml- 3KDa			
	filter tube			
	NOTE: The reservoir holds a maximum of 500 μL. Because of this limitation, many samples			
	will require two filters for efficient collection of filtered sample.			
3.	Centrifuge the sample for 30-60 minutes at 13,000 rpm or 13,793 rcf at 4 °C.			
	NOTE 1: Some samples may need more time in the centrifuge. Centrifuge until you get the			
	maximum amount of sample possible accumulated in the filtrate receiver. Record the time in			
	your laboratory notebook.			
	NOTE 2: The final filtrate should ideally be clear of any coloration. In most cases, coloration is			
	the result of a filter breakdown, in which case the filtrate should be re-filtered through a new			
	filter.			
4.	Transfer the filtered sample into a 1.5 ml labeled Eppendorf tube using a pipette.			
5.	Repeat steps 1-4 until the desired total volume of filtered sample has been transferred into the			
	labeled microcentrifuge tube.			
	NOTE: If you cannot obtain the ideal final volume of sample, you will need to top up the			
	sample with HPLC-grade H <sub>2</sub> O. This will dilute your sample, but provide sufficient volume for			
	spectral acquisition. Record the amount of sample acquired and amount of water added into			
	your laboratory notebook.			
6.	After you have removed the filtrate, dispose the whole filtration complex (microcentrifuge tube			
	and filter) in the biohazardous waste container.			

## **References** Not applicable

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### Related

C001 - Preparing an AMICON ultra 0.5ml- 3KDa filter tube for filtration **Documents** 

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