

## Measurement of Rn – 222 in Water

- Method 1**      **Mixed sample consisting of water and a water miscible scintillation cocktail**  
(Cocktail:e.g:AquaLight) direct gross a + b measurement (without  $\alpha/\beta$  separation)
- Method 2**      **Mixed sample consisting of water and a water miscible scintillation cocktail**  
(Cocktail:e.g.:AquaLight) direct a - measurement with a/b separation 7mlVial: 4,2 ml cocktail + 2,8 ml radon containing water 20mlVial: 12 ml cocktail + 8 ml radon containing water.  
*Time for sample preparation and measurement: 10 minutes*
- Method 3**      **Extraction of the sample into a water immiscible cocktail, measurement after 3 hours**  
(Cocktail:e.g.:MaxiLight) a- measurement with a/b separation 7mlVial: 3,5 ml cocktail + 3,5 ml radon containing water 20mlVial: 10 ml cocktail + 10 ml radon containing water  
*Time for sample preparation and measurement: 3 h*

### Lower limit detection

	T = 1 minute Bq / l	T = 10 minutes Bq / l	T = 30 minutes Bq / l
Method 1, 20ml Background:500cpm	30	10	4
Method 2, 20ml Background: 7cpm	6	2	0,8
Method 2, 7ml Background: 1cpm	6	2	0,8
Method 3, 20ml Background: 0,1cpm	1	0,3	0,1
Method 3, 7ml Background: 0,05cpm	0,6	0,2	<0,1

### Product Information

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