

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 α/β 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

Finland and International Hidex Oy tel +358-2-2750557 fax +358-2-2410075 info@hidex.com **Canada** Gamble Technologies Limited Tel: 905 812 9200 info@gtl.ca **France** ScienceTec Tel +3316446 2400 info@sciencetec.fr **Germany (Austria, Czech Republic)** FCI Frenzel Consulting & Instruments Tel +49 7082 948 290 eberhardfrenzel@aol.com **Hong Kong** Line Analytics Life Sciences Ltd. Tel + 852 2578 5839 line@lineanalytics.com **Japan** Sowa Trading Co Inc. Tel +81 3 3862 2700 tokyo@sowa-trading.co.jp **Korea** SIMS Co.Ltd Tel +82 2 576 9727 dmlee@sims.com **Russia** Pribori Oy c/o Wallac Oy Tel +358 2 267 8111 maria.kivisto@pribori.pp.fi **Scandinavia:** Reaction-Lab Oy Tel +358 2 410 1746 info@reaction-lab.com **Spain** Izasa s.a. Tel +34 91 6630500 jbruna@izasa.es **Switzerland** Uehlinger Pfiffner AG Tel +41 62 7212281 mail@uehlinger-pfiffner.ch **United Kingdom** Southern Scientific Ltd. Tel +44 1903 6044000 info@southern-scientific.co.uk **U.S.A** Bioscan Inc Tel + 1 202 338 0974 sales@bioscan.com

www.hidex.com