



bbe l0cells

New Measuring Instrument for the Indicative Investigation of Ballast Water











The Best First: the Advantages of bbe I0cells

- Resolution: 1-2 cells/ml
- Very simple operation
- Measurement within approx.1 min
- Based on fluorescence (f_{variable})
- No chemicals
- No 'infection' by the sample-taker



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The Instrument's Application in Water Works for Testing Treatment Steps — a useful application?

After

- Pre-Chlorination
- Ozonotaion
- Filtration
- Flokkulation

Steps



First Water Works Application: River Dam

Rohwasser: ca 4 µg/l Planktothrix (AOA)

Raw Water

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Filter Size: 8µm





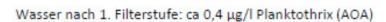








Filtered Water











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Second Application: River Water

Raw water	Danube River
Flocculation	
Sand Filtration and	
Ozonation	

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	10cells	
	3µm filter	1,2µm filter
	[cells/ml]	[cells/ml]
raw water	416	436
after flocculation	60	67
after filtration	0	0



We have found an extremely suitable method to be able to measure ballast water concentrations (algae) in the range of 10µm-50µm upto far below 10 cells/ml.

This idea has now been implemented by the new I0cells instrument.

Many thanks for your attention!