

Luminous bacteria toxicity tests

Tests for bio toxicity in accordance to ISO 11348

BioFix[®] luminous bacteria tests use bio luminescence to determine bio toxicity. In contrast to chemical single parameter analysis, luminous bacteria tests allow an evaluation of the over-all-toxicity of a sample. The test principle is based on the static measurement of the bio luminescence of luminous bacteria (strain *Vibrio fischeri* NRRL B-11177), where a defined sample volume is mixed with a suspension of bacteria. Subsequently, the inhibition of the luminescence in the sample is determined in comparison to an uninhibited control solution.

The tests are easy to use and the procedure is normed (ISO 11348). This guarantees safe and reliable results with low effort. BioFix[®] luminous bacteria tests are available in various, application specific packing sizes. The applications for these tests reach from the analysis of ground, surface, seepage and all types of waste water to the analysis at waste disposal sites. Furthermore they allow the determination of the bio toxicity of solid material e.g. soil samples, sediments and solid waste.

BioFix[®] luminous bacteria tests are available with liquid-dried (according to ISO 11348-2) and freeze-dried bacteria (according to ISO 11348-3). Used reagents and bacteria can be disposed of easily by washing them down the drain.

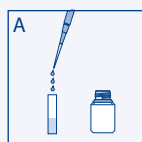
The evaluation of the toxicity analysis is performed with the BioFix[®] Lumi-10 (see page 146), a universal luminometer, which is suitable for portable use.

Importør:
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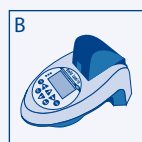
How it's done



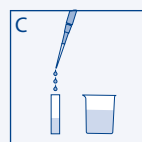
Performance of luminous bacteria toxicity tests



Reactivation of bacteria



Measurement of luminescence at start



Addition of sample, wait reaction time



Measurement of luminescence at end

Ordering information

Test	REF	Number of tubes	Number of tests	Shelf life	Liquid-dried	Freeze-dried
■ Lumi luminous bacteria, with reconstitution solution	945 002	20	up to 2000	2 years		■
■ Lumi luminous bacteria, with reconstitution solution	945 003	10	up to 1000	2 years		■
■ Lumi luminous bacteria, with medium	945 006	20	up to 400	2 years		■
■ Lumi luminous bacteria, with medium	945 007	10	up to 200	2 years		■
■ Lumi multi-shot, with reactivation and control solution	945 022	10	up to 100	2 years		■
■ Lumi single-shot, with reactivation and control solution	945 021	20	up to 40	2 years		■
■ Lumi luminous bacteria, with reactivation and NaCl solution	945 023	10	up to 200	2 years	■	
■ Lumi luminous bacteria, with reactivation and NaCl solution	945 024	20	up to 400	2 years	■	
■ Lumi luminous bacteria, with reactivation and NaCl solution	945 025	10	up to 100	2 years	■	

All freeze/liquid-dried BioFix[®] luminous bacteria are also suited for luminometers of other manufacturers (e.g. LUMISTox, LUMISmini of HACH).

All luminous bacteria tests by MACHERY-NAGEL need to be stored at -20 ± 2 °C.

Accessories

Description	REF	Content
■ BioFix® Lumi diluent	945 601	1 L
■ BioFix® Lumi osmotic adjusting solution	945 602	50 mL
■ BioFix® Lumi reconstitution solution for freeze-dried luminous bacteria	945 603	1 L
■ BioFix® Lumi diluent for solid phase test	945 604	1 L
■ BioFix® Lumi medium for freeze-dried luminous bacteria in accordance with DIN EN ISO 11348-3	945 608	1 L
■ Absorbance color correction cuvettes with 100 aspirators	940 006	4 pieces
■ Glass cuvettes, 50 x 12 mm, plain bottom, 12 mm Ø	916 912	690 pieces
■ Rack for glass cuvettes 12 mm Ø, 5 x 10 positions	945 013	1 piece

