

CAMMAG

World leader in Planar Chromatography

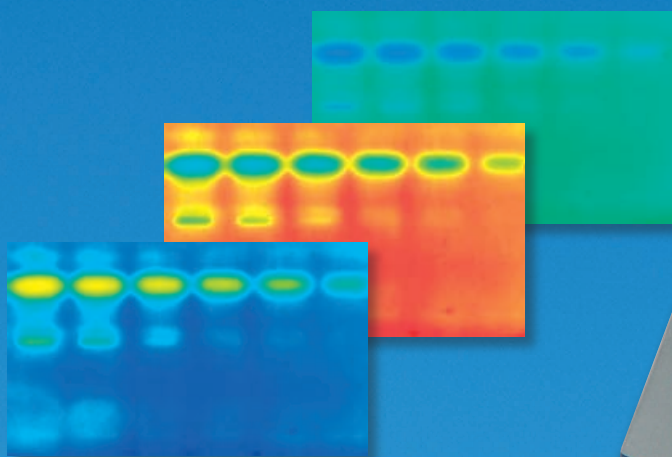
BioLuminizer™: Selective Detection of Bioactive Compounds using HPTLC

In this new analytical tool, the well known technology of thin-layer chromatography is combined with a bioassay.

Complex mixtures are first separated into distinct zones of the individual components.

The HPTLC plate is then coated with the bioluminescent bacteria *Vibrio fischeri** which identifies zones of toxic or bioactive compounds as dark spots on a luminescent background.

Thus, single toxic compounds can be detected at trace levels.



TLC/Bioassay is an excellent tool for identification of single toxic compounds in complex sample matrices.

It is suitable for the detection of toxins and chemical adulterants in foodstuff, beverages, cosmetics, waste water, drinking water and for detection of bioactivity in natural product extracts

www.bioluminizer.com

Key advantages

- Screening for unknown substances: Tedious single compound screening can be avoided
- Rapid response time – fast results
- No false results due to antagonistic effects/interferences
- Detection in picomole range
- High sample throughput – parallel analysis of several samples
- Economic
- Toxic zones can be further investigated

BioLuminizer™ – the dedicated imaging system for bioluminescence detection:

- cooled CCD camera for High resolution and exceptional image quality
- environmentally controlled atmosphere for prolonged stability of the plate
- compact design
- userfriendly, small footprint, easy to clean

Example:

Determination of toxicity in waste water, before and after several waste water treatment steps.

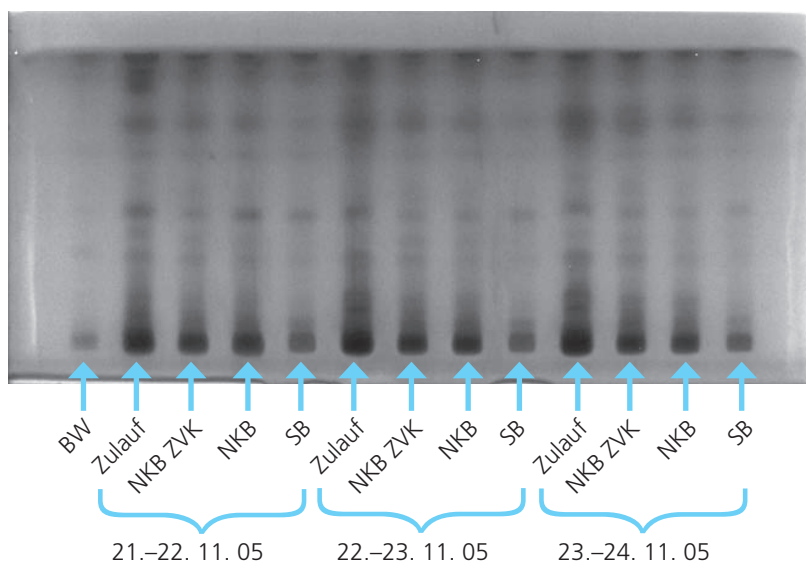


Photo courtesy of Zweckverband Landeswasserversorgung, Langenau, Germany, Dr Weber

The complete range of instruments required for

- Sample Application
- Chromatogram Development
- Immersion Device
- Documentation

is available from the world leader in planar chromatography.

*Toxicity screening of complex mixtures following separation on a HPTLC plate is a technique developed and patented by Bayer. The technology was exclusively licensed by ChromaDex and is now incorporated into a commercial kit Bioluminex™ utilizing the bioluminescent bacteria, *Vibrio fischeri*

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