

Plant-derived antibodies for toxin detection/removal

Title	Plant-derived antibodies for toxin detection/removal
Technology deployment	<p>Tumour-promoting toxins (microcystins) from cyanobacteria can pose significant health risks due to their high stability in the environment and their ability to enter into the food chain. Reliable detection and/or removal of these toxins is therefore crucial.</p> <p>Our technology involves cost-effective production of functional recombinant anti-microcystin antibodies for downstream applications such as antibody-based sensitive test systems for microcystin detection or antibody-based scavengers for water treatment. A highly sensitive lateral flow immunoassay (dipstick) suitable for the on-site analysis of water samples was established.</p> <p>Upscaling for industrial production, both of plant-derived antibody and the complete dipsticks is now feasible.</p> <p>See also: Plant Biotechnol J. 2018 Jan;16(1):27-38. doi: 10.1111/pbi.12746</p>
Keywords	biotechnology; cyanobacteria toxin detection in fresh water; water quality; plant-derived antibody
Comments Regarding Stage of Development	Possible to use since 20.02.2018

Regarding Stage of Development	Development from prototype to final product
	Type and size of client:
Possible client	partners for industrial production
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