

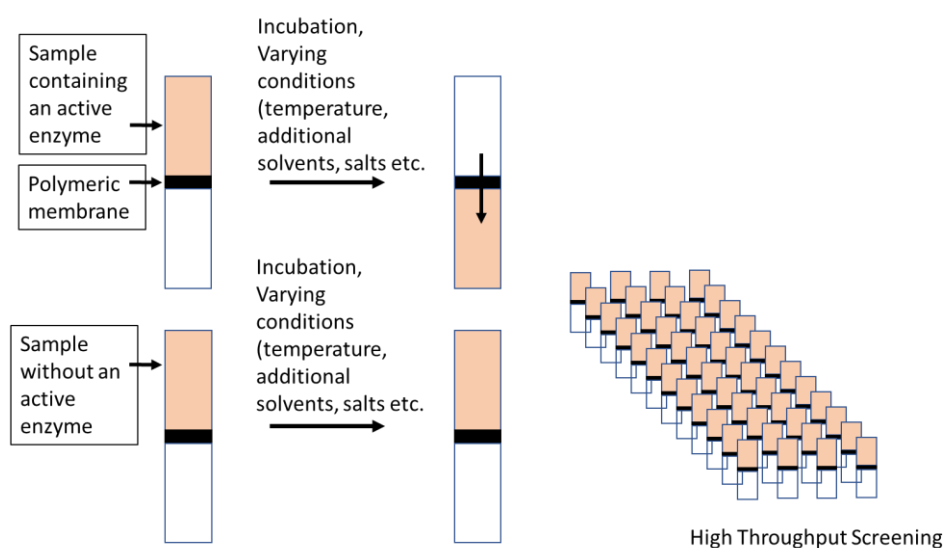
A method for screening the polymer-degrading enzymes



Vilnius
University

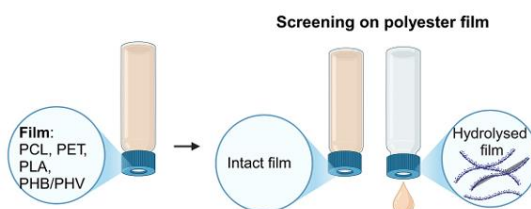
BRIEF DESCRIPTION OF A TECHNOLOGY

A device for detection of polymer degrading enzymes is manufactured via sealing of polymer film, wherein the polymer film separates the well into upper and bottom reservoir. The tested samples are added into upper reservoir. The polymer degrading activity detected by visual verification after incubation period: the liquid entry to the bottom reservoir indicated polymer degrading activity.

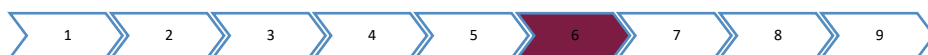


PURPOSE

The selection or screening of uncharacterized polymer films degrading activities of secretory cells, secreted cell products, cell lysates or purified enzymes.



TECHNOLOGY READINESS



Technology demonstrated in relevant environment.

INTELLECTUAL PROPERTY

Patent application: EP4497823 (A1).
Applicant: Vilnius University.

INVENTORS

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RELEVANT PUBLICATIONS

Urbelienė et al. (2025) J Hazard Mater., DOI: [10.1016/j.jhazmat.2025.137177](https://doi.org/10.1016/j.jhazmat.2025.137177).

FIELDS OF APPLICATION

- Biochemistry;
 - Biotechnology;;
 - Microbiology.
- More specifically – selection of polymer-degrading enzymes.

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