



FIBSUN

Novel fibre value chains & ecosystem services from sustainable feedstocks

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Cattail Fibres

Objective:

- To evaluate the effect of growth stage and harvest timing on the processing and quality of cattail (*Typha*) fibers.

Harvest Dates:

01-11-2023



15-01-2024



14-05-2024



13-08-2024

Visual Observations:

- Significant variations in plant composition and characteristics were observed across different growth stages and seasons.

Harvesting Method:

- Harvesting was performed manually, keeping the plants as intact as possible.
- For scaling up with mechanization, it is anticipated that the plants will likely be chopped during harvesting.

Equipment, materials and methodology

- The cattail plants were transported to Grassa's production facility for further processing.
- A small extruder operating at 40 Hz and 9 Amps was utilized.
- The growth stage and composition of the plant significantly impacted processing ease and fiber characteristics.



Extraction Efficiency:

- The timing of the harvest influenced the extraction efficiency.

Partner of the month



Grassa B.V. is a Dutch company that has developed an innovative technology to process grass, transforming it into high-value products for animal and human nutrition. Through a natural process of pressing, heating, and filtration, Grassa unlocks the full nutritional potential of grass, contributing to a more sustainable and efficient agriculture. This method enables a more effective use of natural resources and reduces the environmental footprint of agricultural production.

www.grassa.nl

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