



POLYPHENOLS

WHAT ARE POLYPHENOLS?

Polyphenols are additives with high antioxidant/antimicrobial properties which can be extracted from mushroom by-products. Polyphenols are obtained by using microwave assisted extraction (MAE) with good quality for further use as natural specialty as replacement of fossil-based synthetic additives.



PROPERTIES

- High extraction yields and total phenolics content in MA extracts.
- Good antioxidant performance proved by several methods.
 - Identification of individual polyphenols to be combined to obtain specific properties depending on the requirements for different sectors.

APPLICATIONS

- ✓ **Bio-based additives with antioxidant performance obtained from waste feedstock have potential use in cosmetics and biomaterials for film blowing.**
- ✓ **Possibilities of use as multifunctional additives in applications where antimicrobial activity is required.**

