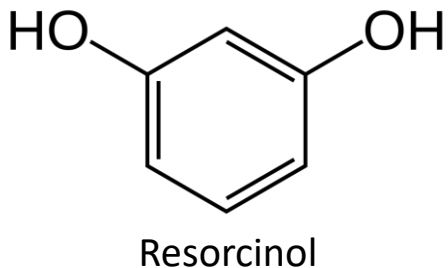
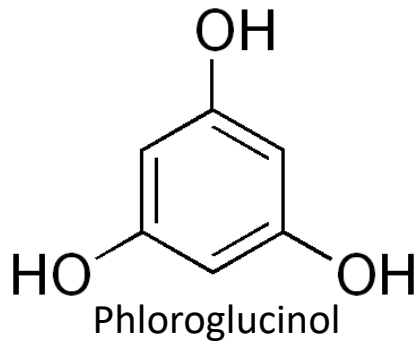


## TECHNOLOGY OFFER

### BIOBASED METHOD TO PRODUCE GREEN PHLOROGLUCINOL & RESORCINOL



#### AN INNOVATIVE OFFER

Phloroglucinol and resorcinol are important chemicals for various applications. Phloroglucinol is used as well as a reaction intermediate, a muscle relaxant or even an anti-oxidant. Resorcinol is used as an intermediate to produce diazo dyes, plasticizers and as an UV absorber in resins.

Conventional production of phloroglucinol and resorcinol is using petrochemistry (benzene) as a starting material. On the top of coming from a non-renewable feedstock, benzene is carcinogenic and not that easy to use.

Brown algae do naturally produce phloroglucinol, in a rather small quantity. Research team managed to identify PKSIII as being the enzyme responsible of phloroglucinol synthesis.

This technology is about a PKSIII recombinant active production with a bacteria (E.Coli), which allows, by action on sugar or malonyl-CoA, a responsible production of phloroglucinol and resorcinol, with a minimum environmental impact versus highly polluting petrochemical ways.

#### POTENTIAL APPLICATION AREAS

- Cosmetic industry
- Adhesives – Resins
- Pharmaceutical industry
- Agri-food

#### TECHNOLOGY ADVANTAGES

- Biobased production process.
- Using less hazardous precursors Vs petrochemical way.
- Fully renewable sourcing.

#### CONTACT

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