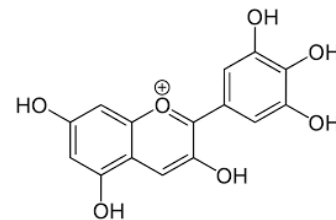
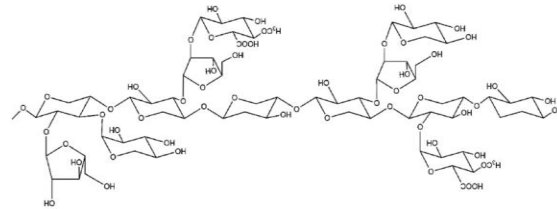
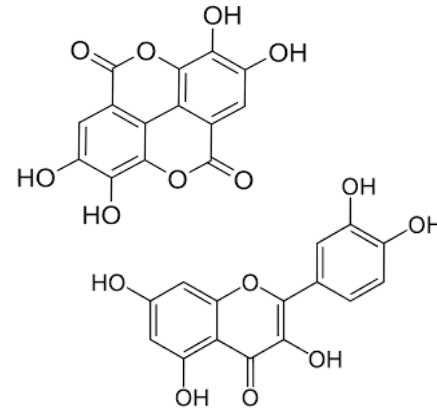




Maceration  
 Soxhlet  
 MAE  
 UAE  
 SFE  
 PLE  
 NaDES

$$\begin{array}{ccccccc} & R^1 & & H & & O & & R^3 & & H & & O \\ & | & & | & & || & & | & & | & & || \\ H_2\ddot{N} & - & C & - & N & - & C & - & N & - & C & - & N & - & C & - & OH \\ & || & & & & & || & & & & & || & & \\ & O & & & & & O & & & & & O & & \\ & & & R^2 & & & & & & & & & & R^4 \end{array}$$


carbohydrates, peptides, proteins, polyphenols

**$\alpha$ -amylase**       **$\alpha$ -glucosidase**

↑insulin secretion  
 ↑β-cell function  
 ↑AMPK signaling pathway

- ↑insulin secretion
- ↑β-cell function
- ↑AMPK signaling pathway

A diagram of a channel protein, which is a blue, barrel-shaped structure embedded in a lipid bilayer. A small green molecule is shown passing through the central pore of the channel. Arrows indicate the direction of movement from the top (extracellular) side to the bottom (intracellular) side.



AI

## AI-based process control

