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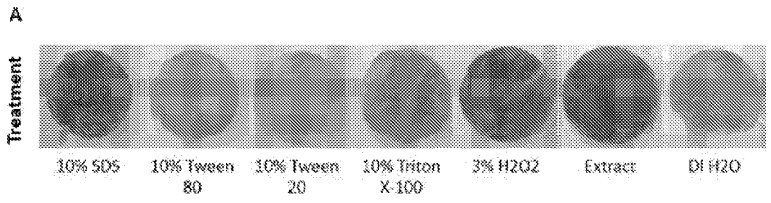


FIG. 1

(57) Abstract: The invention relates to treating a plant-based material with an agent and/or a force to enable the plant-based material to mimic the colour of animal products, wherein the agent and/or force is capable of controlled permeabilisation of cell membrane to thereby release polyphenols from the cells of the plant-based material to allow polyphenol-cell wall interaction and/or causes the oxidation of polyphenols in the plant-based material. Also disclosed is a plant-based food product, such as plant-based meat substitutes, produced by the process thereof.

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