



PLASMA ACTIVATED WATER

WHAT IS PAW?

Plasma Activated Water (PAW) is created by exposing water to plasma to modify water's properties, creating reactive oxygen and nitrogen species (RONS). Plasma discharges in water, with air or oxygen, creating sources of reactive species, such as hydroxyl radicals, atomic oxygen, ozone, nitric oxide radicals, excited nitrogen and hydrogen peroxide.

These energized molecules impart antimicrobial and functional properties, enabling PAW to play a valuable role across agriculture, food industry, and healthcare, and in this way act like a 'performance chemical' (1).

The properties are known to be short and very short lived, allowing for effects to activate. But without any measurable properties. PAW is considered Generally Recognized As Safe (GRAS).

USES FOR PAW

PAW has a wide-ranging of uses and benefits in areas such as improving seed germination and plant growth, controlling and managing wounds, diseases and pests, disinfecting surfaces and decontaminating food (1).

SOURCES

1. Nguyen Van Duc Long, Sourjo Sengupta, Chamgping Zhuang, Katharina Richter and Volker Hessel. (2026, January 15). ScienceDirect.

View the article [HERE](#)

To learn more about Plasma Blue's simple-to-use PAW equipment, please reach out to our team!

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