



	CHALLENG	E SHEET	
CHALLENGE CODE 17.1 CITROSOL	TITLE	Alternative solutions for po	ost-harvest rot control that are residue-free and completely eliminate the use of water in their applicat
DESCRIPTION Water is a scarce and increasingly limited resource. Saving water at all points along the value chain is a fundamental objective in the agricultural sector. Currently, the vast majority of post-harvest treatments for the curative control of rot in fruits and vegetables are applied using water- based methods and/or leave residues of synthetic pesticides on the produce. Additionally, when the application method involves water, waste water is generated from these treatments, which contains these pesticides, posing an environmental problem if not managed properly. To control rot in the post-harvest stage of fruits and vegetables, extending		HOW COULD WE Obtain a post-harvest rot control solution that is as universal as possible (effective against any pathogen- fruit pair), with efficacy equivalent to that of current treatments with chemically synthesized fungicides. This solution should be based on technologies that do not require the use of water in their application and do not leave pesticide residues on the fruit.	
their shelf life, while also saving water and achievi product, the goal is to define/develop solutions that post-harvest fungi without using water and without synthetic pesticides on the produce.	at prevent the growth of	DICATORS	REQUIREMENTS
Equivalent effectiveness to synthetic fungicides. Curative effectiveness with a permissible delay of a minimum of 18 hours between infection and treatment. Preventive effectiveness would be a plus. Universal effectiveness Ease of industrial application Absence of residues on the fruit Cost TRL (Technology Readiness Level) of the solution	Effectiveness in controlling rot against the main pathogen-fruit pairs of interest in post-harvest (to be validated in trials conducted by Citrosol, both on a pilot scale and an industrial scale). Permissible delay Product cost Cost of the application system and/or consumables Residues on the fruit		the application operator.
CHALLENGE TYPOLOGY	Process	✓ Technology	y Business 🖌 Product

KEYWORDS

Control of postharvest decay, water savings, residue-free treatments.