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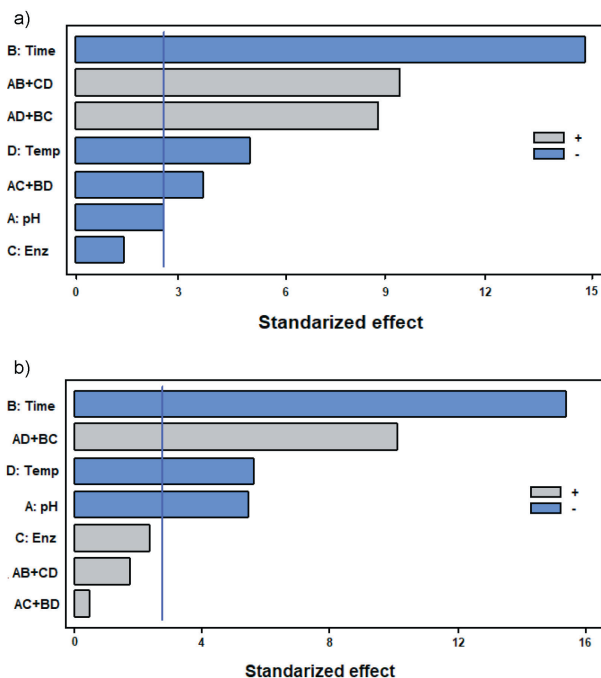


Fig. S1. Pareto diagrams of: a) total carotenoid content, and b) antioxidant activity analyses corresponding to experiment 2. A=pH, B=time, C=enzyme volume per tomato fruit fresh mass (mL per 100 g), D=temperature. The bars that exceed the horizontal blue line correspond to the factors that are significant. The symbols + | - indicate which factor level gives the best result, -1 or 1 (relevant only to significant individual factors). Terms such as AB+CD indicate an interaction between factors that the method is not able to discern, which limits the significance of these terms

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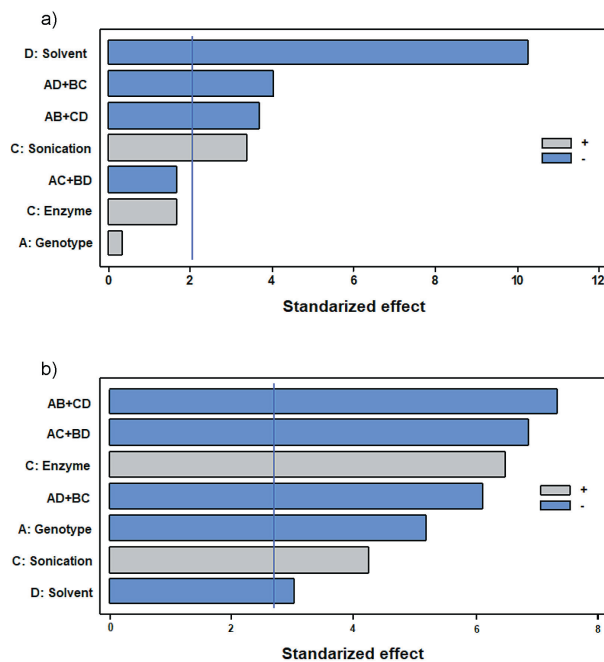


Fig. S2. Pareto diagrams of: a) total carotenoid content, and b) antioxidant activity analyses corresponding to experiment 3. A=genotype, B=sonication, C=KTN enzyme cocktail, D=solvent. The bars that exceed the horizontal blue line correspond to the factors that are significant. The symbols + | - indicate which factor level gives the best result, -1 or 1 (relevant only to significant individual factors). Terms such as AB+CD indicate interaction between factors that the method is not able to discern, which limits the significance of these terms