

## Supplementary materials

### Hypoglycemic and cytoprotective properties of a phenol rich extract from waste peel of *Punica granatum* L. var. Dente di cavallo

Antonella Di Sotto <sup>1,\*</sup>, Marcello Locatelli <sup>2,\*</sup>, Gabriella Mincione <sup>2</sup>, Chiara Toniolo <sup>4</sup>, Simone Carradori <sup>3</sup>, Stefania Cesa <sup>5</sup>, Gabriela Mazzanti <sup>1</sup>, Silvia Di Giacomo <sup>1</sup>

<sup>1</sup> Department of Physiology and Pharmacology, Sapienza University, P.le Aldo Moro 5, 00185 Rome, Italy

<sup>2</sup> Department of Pharmacy, University "G. D'Annunzio" of Chieti-Pescara, Via dei Vestini 31, 66100, Chieti, Italy

<sup>3</sup> Department of Medical, Oral, and Biotechnological Sciences, "G. d'Annunzio" University of Chieti-Pescara, Chieti, Italy

<sup>4</sup> Department of Environmental Biology, Sapienza University, P.le Aldo Moro 5, 00185 Rome, Italy

<sup>5</sup> Department of Chemistry and Technology of Drugs, Sapienza University, P.le Aldo Moro 5, 00185 Rome, Italy

Correspondence: [antonella.disotto@uniroma1.it](mailto:antonella.disotto@uniroma1.it); [marcello.locatelli@unich.it](mailto:marcello.locatelli@unich.it)

Figure S1. High-performance thin-layer chromatography (HPTLC) analysis of the peel extract from *Punica granatum* L. var. "Dente di cavallo" (PGE). HPTLC silica gel 60 glass-backed layers were developed using the solvent mixture ethyl acetate:dichloromethane:acetic acid:formic acid:water (100:25:10:10:11 v/v/v/v/v) and derivatized by Natural Product Reagent (NPR) and/or anisaldehyde. (A) Visualization at 366 nm without derivatization. (B) Visualization at 366 nm after Natural Product Reagent (NPR) derivatization. (C) Visualization at 366 nm after anisaldehyde/NPR derivatization. (D) Visualization under white light after NPR and anisaldehyde derivatization. (E) Visualization at 254 nm. The chromatograms correspond to (1,2) *P. granatum* peel extract; (3) gallic acid; (4) rutin; (5) chlorogenic acid; (6) catechin; (7) caffeic acid; (8) quercetin; (9) kaempferol.

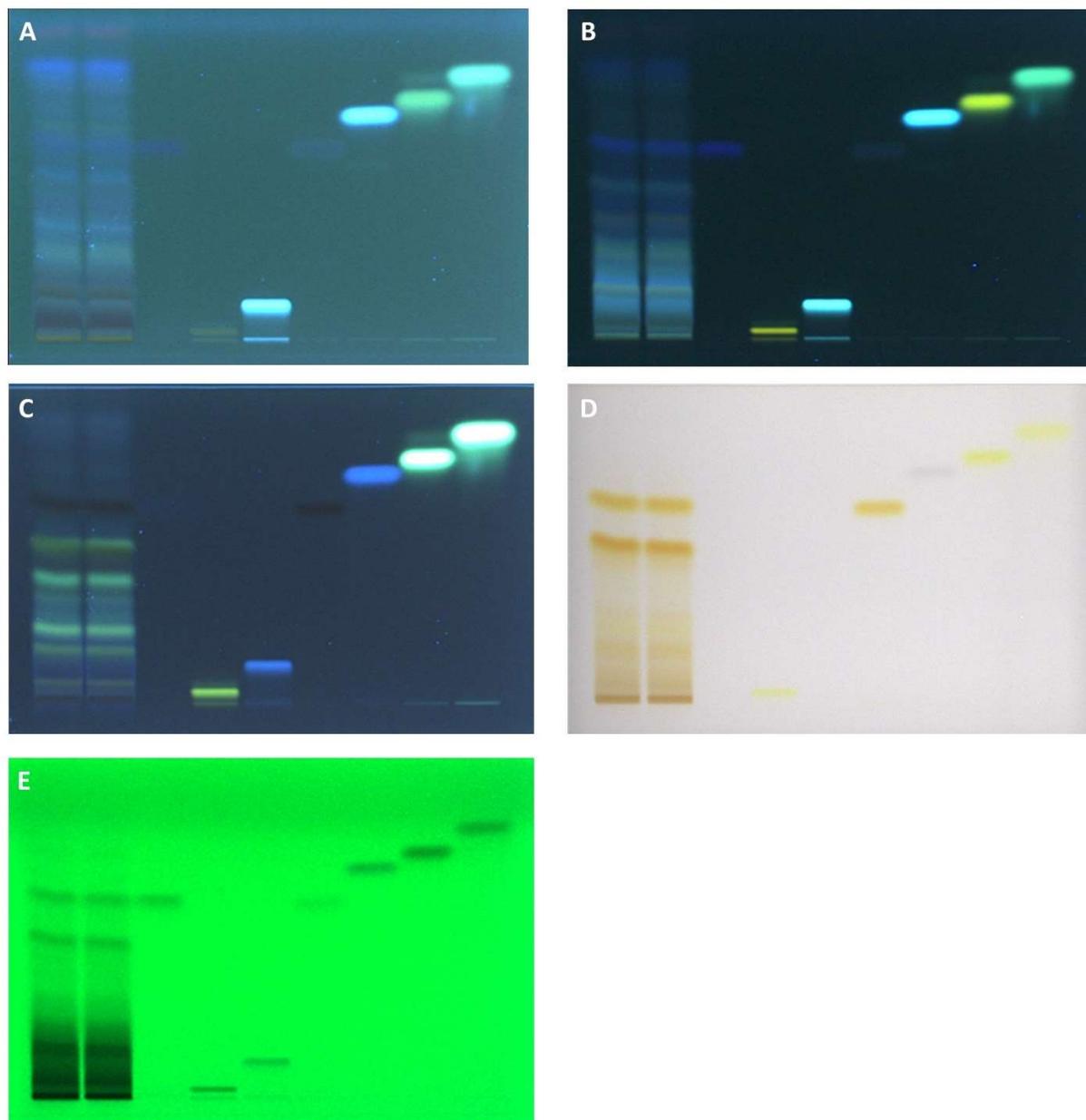


Figure S2. HPLC-PDA (278 nm) chromatograms of the peel extract from *Punica granatum* L. var. "Dente di cavallo" (PGE).

