

## SUPPORTING INFORMATION

### **A multifunctional Trypsin Protease Inhibitor from Yellow Bell Pepper Seeds: Uncovering its Dual Antifungal and Hypogly-cemic Properties**

Juliana Cotabarren <sup>1,a,\*</sup>, Brenda Ozón <sup>1,a</sup>, Santiago Claver <sup>1</sup>, Florencia Geier <sup>1</sup>, Martina Rossotti <sup>1</sup>, Javier Garcia-Pardo <sup>2,\*</sup> and Walter David Obregón <sup>1,\*</sup>

<sup>1</sup> Centro de Investigación de Proteínas Vegetales (CIPROVE), Departamento de Ciencias Biológicas, Facultad de Ciencias Exactas, Universidad Nacional de la Plata, 47 y 115 s/N, B1900AVW La Plata, Buenos Aires, Argentina.

<sup>2</sup> Institut de Biotecnologia i Biomedicina and Departament de Bioquímica i Biologia Molecular, Universitat Autònoma de Barcelona, 08193 Bellaterra, Barcelona, Spain.

\*Correspondence:

cotabarren.juliana@biol.unlp.edu.ar (J.C.); +54-221-423-5333

javiergarciapardo@msn.com (J.G-P); Tel +34-93-586-8936

davidobregon@biol.unlp.edu.ar (W.D.O.); Tel: +54-221-423-5333 (ext. 57)

## SUPPLEMENTARY TABLES

**Table S1:** Evaluation of the antibacterial activity of *Capsicum annuum L.* crude extract (YBPCE) and heat-treated sample (YBPHT).

Pathogenic Organism	Inhibition	
	YBPCE	YBPHT
<b>Gram negative bacteria</b>		
<i>Escherichia coli</i> (ATCC 25923)	n/d	n/d
<i>Klebsiella pneumonia</i> (ATCC 700603)	n/d	n/d
<i>Pseudomonas aeruginosa</i> (ATCC 27853)	n/d	n/d
<b>Gram positive bacteria</b>		
<i>Enterococcus faecalis</i> (ATCC 29212)	n/d	n/d
<i>Staphylococcus aureus</i> (ATCC 29213)	n/d	n/d
<b>Fungus</b>		
<i>Candida albicans</i> (CIPROVE)	20 mm	22 mm
<i>Candida tropicalis</i> (CIPROVE)	17 mm	19 mm
<i>Candida glabrata</i> (CIPROVE)	11 mm	8 mm
<i>Candida krusei</i> (CIPROVE)	27 mm	28 mm
<i>Rhodotorula spp</i> (CIPROVE)	15 mm	20 mm
<i>Saccharomyces cerevisiae</i> (CIPROVE)	21 mm	28 mm

<sup>a</sup> Abbreviations are: ATCC, American Type Culture Collection; CIPROVE, Culture collection of the CIPROVE, Facultad de Ciencias Exactas, Universidad Nacional de La Plata. NM, Not detected.