

## Supplementary material

**Table S1: Tomato powder\* composition (for 100 g).**

<b>Carbohydrates (g)</b>	66
<b>Proteins (g)</b>	10.2
<b>Lipids (g)</b>	1.2
<b>Total carotenoids (mg)</b>	142.2
<i>All-trans lycopene</i>	109.2
<i>5-cis lycopene</i>	7.4
<i>Lycopene isomers</i>	15.7
<i>β-carotene</i>	8.7
<i>Lutein</i>	1.2
<b>α-tocopherol (mg)</b>	1.9
<b>Total flavonoids (mg)</b>	15.3
<i>Quercetin derivatives</i>	11.1
<i>Naringenin derivatives</i>	4.2

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\*Tomato powder is a spray-dried product made from heat-processed tomato paste obtained from whole tomatoes, including seeds and skins.

**Table S2:**

**Chemical composition of diets (for 100 g).** All nutrients are expressed in grams. In parenthesis the contribute of each macronutrient to total energy is also reported.

	<b>Control Diet</b>	<b>Tomato Diet</b>
	<b>g (% of energy)</b>	<b>g (% of energy)</b>
<b>Moisture</b>	12.0	12.0
<b>Proteins</b>	22.7 (26 %)	21.7 (26 %)
<b>Fats</b>	4.7 (13 %)	4.4 (12 %)
<b>Carbohydrates</b>	52.5 (61 %)	51.0 (62 %)
<b>Fiber</b>	2.8	3.1
<b>Ash</b>	5.3	5.9
<b>Vitamins</b>	1.0	1.1
<b>Minerals</b>	0.1	0.2
<b>Choline</b>	0.2	0.2
<b>Carotenoids</b>	---	0.014
<b>Flavonoids</b>	---	0.001

**Table S3.****Complete list of monitored serum proteins.****(Rodent MAP-V2.0, <http://www.rulesbasedmedicine.com>).**

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Apolipoprotein A1	Interleukin-11
C-Reactive Protein	Interleukin-12p70
CD40	Interleukin-17
CD40 Ligand	Leukemia Inhibitory Factor (LIF)
Endothelin-1	Lymphotactin
Eotaxin	M-Colony Stimulating Factor
EGF	Macrophage Derived Chemokine
Factor VII	Macrophage Inflammatory Protein-1 $\alpha$ (MIP-1 $\alpha$ )
Fibrinogen	Macrophage Inflammatory Protein-1 $\beta$ (MIP-1 $\beta$ )
FGF-basic	Macrophage Inflammatory Protein-1 $\gamma$ (MIP-1 $\gamma$ )
FGF-9	Macrophage Inflammatory Protein-2 (MIP-2)
Granulocyte Chemotactic Protein-2	Macrophage Inflammatory Protein-3 $\beta$ (MIP-3 $\beta$ )
GM-Colony Stimulating Factor	Matrix Metalloproteinase-9
Glutathione S Transferase- $\alpha$	Monocyte Chemoattractant Protein-1
Growth_Related Oncogene alpha (KC/GRO $\alpha$ )	Monocyte Chemoattractant Protein-3
Haptoglobin	Monocyte Chemoattractant Protein-1
Immunoglobulin A	Myeloperoxidase
Inducible Protein-10 (IP-10)	Myoglobin
Interferon-gamma	Oncostatin M
Interleukin-1 alpha	RANTES
Interleukin-1 beta	Serum Amyloid P
Interleukin-2	SGOT
Interleukin-3	Stem Cell Factor (SCF)
Interleukin-4	Thrombopoietin
Interleukin-5	TIMP 1
Interleukin-6	Tissue Factor
Interleukin-7	VEGF
Interleukin-10	von Willebrand Factor

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