

## Supplementary Materials

Supplementary 1: Composition of sperm TALP-HEPES and modification of the composition for each treatment. Basal TALP-HEPES maintains the basal condition of sperm samples without generating any physiological modification to induce capacitation. CAP.BUFFER includes 2.0mM of CaCl<sub>2</sub> for activating capacitation by the calcium pathway. MT corresponds to TALP-HEPES and 10 µgGAE mL<sup>-1</sup> of MT-Ex. MT + CAP.BUFFER contains the same characteristic of capacitating buffer but includes 10µgGAE mL<sup>-1</sup> of extract to evaluate the calcium response in sperm samples.

<b>Reagent</b>	<b>BASAL:</b> <b>TALP-HEPES medium</b>	<b>CAP. BUFFER:</b> <b>TALP-HEPES + Calcium and BSA</b>	<b>MT + CAP.BUFFER:</b> <b>TALP-HEPES + Calcium, BSA and MT-Ex</b>	<b>MT:</b> <b>TALP-HEPES medium + MT-Ex</b>
<b>Glucose</b>	6 mM	5mM	5mM	6 mM
<b>NaCl</b>	113 mM	100mM	100mM	113 mM
<b>KCl</b>	2.7 mM	3.1mM	3.1mM	2.7 mM
<b>CaCl<sub>2</sub></b>	-	2.0mM	2.0mM	-
<b>MgCl<sub>2</sub></b>	0.5 mM	0.4mM	0.4mM	0.5 mM
<b>NaH<sub>2</sub>PO<sub>4</sub></b>	0.4 mM	0.3mM	0.3mM	0.4 mM
<b>NaHCO<sub>3</sub></b>	20 mM	15mM	15mM	20 mM
<b>Pyruvate</b>	3,1 mM	1.0mM	1.0mM	3,1 mM
<b>Lactate</b>	20 mM	21.7mM	21.7mM	20 mM
<b>HEPES</b>	20 mM	20mM	20mM	20 mM
<b>BSA</b>	-	0.3%(wt/vol)	0.3%(wt/vol)	-
<b>mosm/kg</b>	290-300	290-300	290-300	290-300
<b>pH</b>	7.4	7.4	7.4	7.4
<b>Murtilla Extract (MT-Ex)</b>			0.315µgGAE mL <sup>-1</sup>	0.315µgGAE mL <sup>-1</sup>