Mitochondrial membrane potential		
Components	Test (J7)	Positive control (J7F)
Sperm aliquot (10 ⁶ /mL)	190µL	190µL
7-AAD (concentration is proprietary)	4μL	$4\mu L$
JC-1 (1mM)	4µL	$4\mu L$
FCCP (10mM) in DMSO	-	1µL
DMSO	1µL	-
	Oxidative Stress	
Components	Test (M7)	Positive control (M7AA)
Sperm aliquot (10 ⁶ /mL)	190µL	190µL
7-AAD (concentration is proprietary)	$4\mu L$	4µL
MSR (50µg in 13µL DMSO)	4µL	4µL
AA (50mM) in EtOH	-	$4\mu L$
Ethanol	4µL	-

Supplementary table 1. Values and concentrations of tube contents for mouse FACS experiments (Oral Administration Cohort). To assess MMP in viable sperm cells JC-1 and 7-AAD was added into the sperm aliquot. Carbonyl cyanide-trifluoromethoxyphenylhydrazone (FCCP) was added as a positive control. DMSO was added as vehicle.

To assess oxidative stress in live sperm cells, MSR and 7-AAD were added into the sperm aliquot. Arachidonic acid (AA) was added as a positive control. Ethanol was added as vehicle.