

S5 Table. Spermogram data

Individual	Volume (≥ 1.5 ml)	Color ¹	Viscosity ²	Concentration (≥ 15 x 10 ⁶ cells/ ml)	Motility ³ (≥ 32% progressive motile (PR) sperm cells*)	Morphology (≥ 4% normal formed sperm cells*)
A-III-9	3 ml	normal	normal	22 x 10 ⁶ cells/ ml	PR: 07%	< 1%
					NP: 05%	
					IM: 88%	
B-II-1	3 ml	creamy	normal	80 x 10 ⁶ cells/ ml	PR: 20%	10%
					NP: N.A.	
					IM: N.A.	

n.a.: not available

Reference: WHO laboratory manual for the examination and processing of human semen. 5th ed. World Health Organization, Geneva, 2010.

¹ According to latest WHO guidelines (2010) a normal liquefied semen sample has a homogeneous, grey-opalescent appearance. It may appear less opaque if the sperm concentration is very low; the colour may also be different, i.e. red-brown when red blood cells are present (haemospermia), or yellow in a man with jaundice or taking certain vitamins or drugs.

² A semen sample with normal viscosity leaves the pipette in small discrete drops. If viscosity is abnormal, the drop will form a thread more than 2 cm long.

³ Sperm motility according to latest WHO guidelines (2010) is assessed by categorizing sperm cells in the analyzed ejaculate in progressive motile (PR), non-progressive motile (NP) and immotile sperm cells. The respective percentages have to be determined.

*32% for motility and 4% for morphology are the lower limits for normality.