

Supplementary File

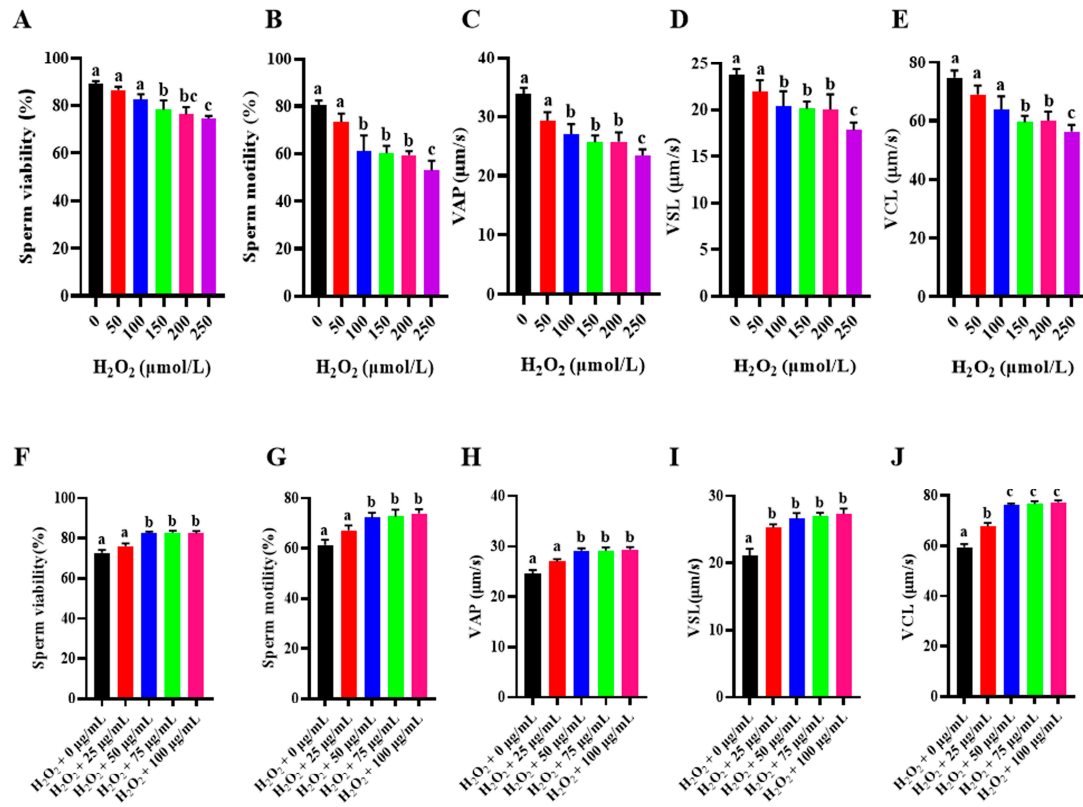


Figure. S1. Screening for suitable concentrations of H₂O₂ and NMN. (A) Sperm viability after treatment with H₂O₂ for 4 h. (B) Sperm motility. (C) VAP. (D) VSL. (E) VCL. (F) Sperm viability after treatment with NMN for 4 h. (G) Sperm motility. (H) VAP. (I) VSL. (J) VCL. The data are represented as mean ± SEM (n = 5), and different letter indicates significant difference (*P* < 0.05).

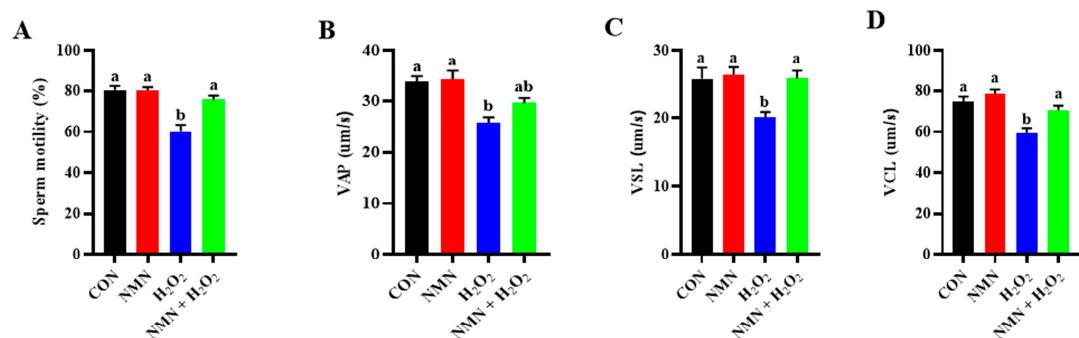


Figure. S2. NMN rescues sperm quality after H₂O₂ treatment. (A) Sperm motility after co-treatment with NMN and H₂O₂. (B) VAP. (C) VSL. (D) VCL. The data are represented as

mean \pm SEM (n = 5), and different letter indicates significant difference ($P < 0.05$).

Table S1

Composition and nutrient analysis of basal diet.

Ingredient	Content, %
Corn	37.48
Barley	15.22
wheat	14.81
Rice bran meal	10.17
Soybean meal	14.80
Soybean oil	2.50
L-lysine	0.40
Methionine	0.15
Threonine	0.25
Ground limestone	1.52
Monocalcium phosphate	1.21
Sodium chloride	0.49
Premix*	1.00
total	100
Nutrient, %	
Calculated NE, kcal kg ⁻¹	2.30
Crude protein, %	16.20
Crude fat, %	3.86
Crude ash, %	6.74
Crude fiber, %	4.45
Ca, %	0.85
P, %	0.57

* Premix provided the following minerals per kilogram: VA 5800 IU, VD 3500 IU, VE 30 IU, VK 28.5 mg, VB 65.0 mg, VB1200 μ g, biotin 0.25 mg, D-pantothenic acid 5.6 mg, nicotinic acid 10 mg, Cu 20 mg, Fe 180 mg, Zn 150 mg, Mn 60 mg, I 0.60 mg,

Se 0.60 mg, and Cr 0.25 mg.