Table S1. Description of the variables extracted from the studies for conducting the meta-analysis

No	Study	Palm kernel cake inclusion levels (g/kg DM the diet)	Specie	Intake (g/kg $BW^{0.75}$)					Digestibility (g/kg DM)					Performance	
				DM	CP	EE	NDF	TDN	DM	CP	EE	NDF	TDN	ADG (g/day)	FE (g gain/kg feed)
1	Abdullah and Hutagalung, 1988	890	Cattle	+										+	+
2	Correia et al., 2011	0 and 160	Cattle	+	+	+	+	+	+	+	+	+			
3	Fereira et al., 2012	0, 70, 141, 211, and 281	Cattle	+	+	+	+	+	+	+	+	+			
4	Maciel et al., 2012	0, 119, 229, and 342	Cattle	+	+	+	+	+	+	+	+	+	+	+	+
5	Cruz, 2013	0, 70, 140, and 210	Cattle	+	+	+	+	+	+	+	+	+	+		
6	Cunha et al., 2013	0, 113, 228, and 342	Cattle	+	+	+	+	+	+	+	+	+			
7	Santana Filho, 2013	0, 70, 140, and 210	Cattle											+	+
8	Pimentel et al., 2015	0, 43, 92, and 138	Cattle	+			+	+							
9	Martins, 2016	0, 61, 127, and 187	Cattle	+	+	+	+	+	+	+	+	+	+		
10	Sani et al., 2017	0, 50, 100, 150, and 200	Cattle											+	+
11	Pimentel et al., 2018	0, 43, 92, and 138	Cattle		+	+			+	+	+	+	+	+	
12	Sani, 2018	0, 50, 100, 150, and 200	Cattle						+	+	+	+			
13	Cruz et al., 2018	0, 70, 140, and 210	Cattle	+	+	+	+		+	+	+	+		+	+
14	Hussein et al., 2018	0, 80, and 159	Cattle	+						+	+			+	+
15	Iqbal et al., 2019	0, 100, and 200	Cattle											+	
16	Santos et al., 2019	0, 80, 160, and 240	Cattle	+	+	+	+	+	+	+	+	+	+	+	+
17	Lisboa et al., 2021	0, 80, 160, and 240	Cattle	+	+	+	+	+	+	+	+	+	+	+	+
18	Sani et al., 2021	0, 50, 100, 150, and 200	Cattle	+										+	+
19	Abreu et al., 2024	0, 100, 200, and 300	Cattle	+	+	+	+	+	+	+	+	+	+	+	+
20	Gunawan et al., 2023	0, 76, and 126	Cattle	+										+	+
21	Carvalho et al., 2004	0, 94, and 188	Goat	+			+								
22	Silva et al., 2005a	0, 94, and 188	Goat						+	+	+	+			
23	Silva et al., 2005b	0, 94, and 188	Goat	+	+	+	+	+					+		
24	Chanjula et al., 2010a	100, 160, 223, 303, and 378	Goat	+					+	+		+			
25	Chanjula et al., 2010b	128, 195, 113, 172, 115, and 151	Goat	+					+	+	+	+			
26	Chanjula and Pengnoo, 2012	0, 32, 67, 97, and 128	Goat	+					+	+	+	+			
27	Abubakr et al., 2013a	0 and 506	Goat	+					+	+	+	+			
28	Abubakr et al., 2013b	0 and 784	Goat	+										+	+

29	Rahman et al., 2013b	0, 40, 95, and 141	Goat	+	+		+		+	+		+			+		+
30	Rahman et al., 2013a	0 and 249	Goat	+	+		+		+	+		+			+		+
31	Oliveira et al., 2017	0, 70, 140, and 210	Goat	+			+										
32	Ribeiro et al., 2018	0, 70, 140, and 210	Goat	+	+	+	+	+	+	+	+	+	+		+		+
33	Olawoye et al., 2020	0, 89, 166, 239, and 267	Goat	+											+		+
34	Silva et al., 2020	0, 120, 240, and 360	Goat	+	+	+	+	+	+	+	+	+	+		+		+
35	Rodrigues et al., 2021	0, 120, 240, and 360	Goat	+	+	+	+		+	+	+	+	+		+		+
36	Ferreira et al., 2022	0, 80, 160, and 240	Goat	+	+	+	+	+	+	+	+	+	+				
37	Arief et al., 2023	0, 100, 200, and 300	Goat	+	+				+	+							
38	Arief et al., 2024	0, 150, 250, and 350	Goat	+	+				+	+							
39	Lakshmi and Krishna, 1995	0, 50, 100, and 150	Sheep	+	+					+		+					
40	Umunna et al., 1994	0, 200, 350, 500, and 650	Sheep	+					+	+					+		+
41	Carvalho et al., 2006	0 and 160	Sheep	+			+										
42	Costa et al., 2010	100, 200, 300, and 400	Sheep	+			+		+			+					
43	Bringel et al., 2011	0, 200, 400, 600, and 800	Sheep	+	+	+	+	+	+	+	+	+	+				
44	Macome et al., 2011	0, 65, and 130	Sheep	+	+	+	+	+					+		+		+
45	Nunes et al., 2011	0, 135, and 195	Sheep	+	+	+	+	+	+	+	+	+					
46	Macome et al., 2012	0, 65, 130, and 195	Sheep	+			+	+					+		+		+
47	Visoná-Oliveira et al., 2015	0, 75, 150, and 225	Sheep	+	+	+	+	+	+	+		+	+				
48	Pinho et al., 2016	0, 150, 300, 450, and 600	Sheep	+			+										
49	Santos et al., 2016	0, 75, 150, 225, and 300	Sheep	+	+	+	+	+	+	+	+	+	+		+		+
50	Omotoso et al., 2021	0, 50, 100, and 250	Sheep	+	+	+	+		+	+	+	+			+		+
51	Castro et al., 2023	0 and 176	Sheep	+	+	+	+		+	+	+	+			+		+

2 + = variables included in the study

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