

**Supplementary Table 2.** Effect of hLeptin infusion in early lactation on determinants of the whole animal energy budget

	Infusion <sup>1</sup>		Day <sup>1</sup>				SE	P value <sup>2</sup>		
	Control	hLeptin	1	2	3	4		Infusion	Day	Infusion*Day
Body Weight, kg	578	551	575	-	-	554	6	0.02	<0.001	0.02
Feed Intake, kg DM/day	18.3	16.7	16.8	18.0	18.4	16.7	0.8	NS	NS	NS
Milk Yield, kg/day	32.1	30.8	29.9	31.3	31.9	32.6	0.6	NS	<0.001	NS
Milk Composition										
Fat, %	4.6	4.9	4.8	4.8	4.9	4.4	0.16	NS	NS	NS
Protein, %	3.4	3.3	3.3	3.4	3.3	3.3	0.16	NS	NS	NS
Lactose, %	4.8	4.7	4.5	4.8	4.8	4.8	0.12	NS	NS	NS

<sup>1</sup>Dairy cows received continuous intravenous infusion of saline (Control) or recombinant human leptin (hLeptin) between day 8 and 12 of lactation (n = 5 cows per treatment).

<sup>2</sup>Type I error probability for Infusion, day of infusion (Day) and their interaction (Infusion\*Day). NS, non-significant.