

Supplementary Materials

Table S1. Proximate composition (%DM) and energy content (Kj/g DM) of a control diet and eleven agricultural side-streams based on duplicate analysis.

Side-streams	Dry Matter (%)	Protein (% DM)	Lipids (% DM)	Ash (% DM)	Energy (Kj/g)	Supplier
Wheat bran (control ingredient)	86.7	16.9	2.2	4.6	16.7	Mallias N., Bros O.E.
Sugar beet pulp meal	93.7	27.6	1.8	7.5	17.3	Mallias N., Bros O.E.
Cotton cake	91.0	26.3	6.8	4.5	18.5	Mallias N., Bros O.E.
Cotton seed meal	92.0	25.7	14.0	4.2	20.0	Local farmer
Sunflower meal	91.7	27.6	1.6	7.0	17.1	Mallias, N., Bros O.E.
Barley side-stream (class I)	90.3	8.0	0.6	13.5	14.5	Fyto-Animal Services
Barley side-stream (class II)	88.6	12.1	0.6	3.3	16.2	Fyto-Animal Services
Oat side-stream	91.2	19.3	3.4	9.3	16.9	Fyto-Animal Services
Pea side-stream (class I)	91.0	10.9	0.0	23.1	10.9	Fyto-Animal Services
Pea side-stream (class II)	91.0	25.4	1.2	4.6	16.3	Fyto-Animal Services
Vetch side-stream (class I)	89.5	21.7	3.0	11.8	15.1	Fyto-Animal Services
Vetch side-stream (class II)	91.9	25.0	1.0	11.4	14.7	Fyto-Animal Services
Yeast (control ingredient)	97.1	50.0	1.7	6.7	19.9	Angel Yeast Co., Ltd

Table S2. Inclusion percentages of side-streams in two sets of isoproteinic diets (A=16.9% protein; B=20.0% protein).

Diet										
Side-streams	A1 (control A)	A2	A3	A4	A5	B1 (control B)	B2	B3	B4	B5
Wheat bran	100					90				
Barley side-stream (class I)			41.0	49.0				15.0	30.0	
Barley side-stream (class II)		55.0			44.5		31.5			10.0
Oat side-stream			23.0		27.5			42.0		28.0
Pea side-stream (class I)										
Pea side-stream (class II)		9.0		25.5			38.0		39.0	
Vetch side-stream (class I)		36.0			28.0		30.5			62.0
Vetch side-stream (class II)			36.0	25.5				43.0	31.0	
Yeast						10				

Table S3. Proximate composition as a % of dry weight basis and energy content (Kj/g DM) of two sets of isoproteinic diets (A=16.9% protein; B=20.0% protein).

Diet	Dry Matter (%)	Protein (% DM)	Lipids (% DM)	Ash (% DM)	Energy (Kj/g)
A1	86.7	16.9	2.2	4.6	16.7
A2	89.2	16.9	1.5	6.5	15.8
A3	91.1	16.9	1.3	11.8	15.1
A4	90.9	16.9	0.9	10.5	15.0
A5	89.6	16.9	1.9	7.4	16.1
B1	87.7	20.0	2.2	4.8	17.0
B2	89.8	20.0	1.6	6.2	15.9
B3	91.4	20.0	1.8	10.8	15.6
B4	91.1	20.0	1.0	9.2	15.3
B5	89.9	20.0	2.8	10.3	15.7