

# SOYBEAN HULLS

AVAILABILITY:  
CONVENTIONAL, ORGANIC

Soybean hulls are a very interesting dietary by-product as they contain a high proportion of digestible fibres. They can therefore be considered as a partial substitute for fodder in terms of fibre content, and partial substitute for grains in terms of energy content. Integrating hulls to feed can balance out high energy, rich, digestible NDF fibre and moderate starch rations.

## TYPICAL ANALYSIS

	AS FED	DRY BASIS
DRY MATTER (DM) %	91,79	100,00
MOISTURE %	8,21	0,00
CRUDE PROTEIN (CP) %	13,59	14,81
SOLUBLE PROTEIN (% PB/CP)	32,10	32,10
CRUDE FAT %	2,96	3,22
CRUDE FIBER %	35,80	39,00
ACID DET. FIBER %	46,44	50,59
NEUTRAL DET. FIBER %	64,85	70,65
LIGNIN %	2,92	3,18
CALCIUM (CA) %	0,58	0,63
PHOSPHOROUS (P) %	0,16	0,17
POTASSIUM (K) %	1,43	1,56
MAGNESIUM (MG) %	0,29	0,32
IRON (FE) PPM	581,84	633,88
SODIUM (NA) %	0,01	0,01
HCNS %	3,1	3,4
HCNF %	12,3	13,4
NET ENERGY LACTATION (NEL) MCAL/KG	1,52	1,66
NET ENERGY GAIN (NEG) MCAL/KG	0,92	1,00
NET ENERGY (EN) MCAL/KG	1,51	1,65

# DETAILED TYPICAL ANALYSIS

		AS FED	DRY BASIS
DRY MATTER (DM) %		91,79	100,00
MOISTURE %		8,21	0,00
PROTEIN	CRUDE PROTEIN %	13,59	14,81
	SOLUBLE PROTEIN (% PB/CP)	32,10	32,10
	ADP (% CP)	5,99	5,99
	NDP (% CP)	30,58	30,58
	NON-DEGRADABLE PROTEIN (% PB/CP)	39,22	39,22
FIBERS	CRUDE FIBER %	35,80	39,00
	ACID DET. FIBER %	46,44	50,59
	NEUTRAL DET. FIBER %	64,85	70,65
	LIGNIN %	2,92	3,18
MEASURED VALUES	CRUDE FAT %	2,96	3,22
	STARCH %	0,40	0,44
	ASH %	5,26	5,73
	HCNS %	3,1	3,4
	HCNF %	12,3	13,4
MINERALS	CALCIUM (CA) %	0,58	0,63
	PHOSPHOROUS (P) %	0,16	0,17
	POTASSIUM (K) %	1,43	1,56
	MAGNESIUM (MG) %	0,29	0,32
	SODIUM (NA) %	0,01	0,01
	IRON (FE) PPM	581,84	633,88
	ZINC (ZN) PPM	62,17	67,73
	COPPER (CU) PPM	8,84	9,63
MANGANESE (MN) PPM	17,34	18,89	
ENERGY	TDN %	67,15	73,16
	NET ENERGY LACTATION (NEL) MCAL/KG	1,52	1,66
	NET ENERGY GAIN MCAL/KG	0,92	1,00
	NET ENERGY MAINTENANCE (EN) MCAL/KG	1,51	1,65
AMINO ACIDS % GRAMS PER 100 GRAMS OF SAMPLE	CYSTEINE	0,23	0,25
	METHIONINE	0,14	0,15
	LYSINE	0,75	0,82
	ALANINE	0,52	0,56
	ASPARTIC ACID	1,09	1,18
	GLUTAMIC ACID	1,45	1,57
	GLYCINE	1,01	1,09
	ISOLEUCINE	0,48	0,51
	LEUCINE	0,80	0,86
	PROLINE	0,74	0,80
	THREONINE	0,42	0,45
	VALINE	0,53	0,57
	ARGININE	0,59	0,63
	HISTIDINE	0,29	0,31
	HYDROXYLYSINE	0,00	0,00
	HYDROXYPROLINE	0,00	0,00
	LANTHIONINE	0,00	0,00
	ORNITHINE	0,00	0,00
	PHENYLALANINE	0,48	0,52
	SERINE	0,66	0,71
TAURINE	0,00	0,00	
TYROSINE	0,54	0,58	
TRYPTOPHAN	0,19	0,21	