



## Nutrient Composition of SoyChlor®

100% Dry Matter Basis

**Dry Matter** 87.8%

Moisture	12.2%
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**Protein**

Crude Protein (%DM)	20.06
RUP (%CP) <sup>1</sup>	58.00
RDP (%CP) <sup>1</sup>	42.00
Soluble Protein (CPM) (%CP)	13.30
Unavailable Protein (CPM) (%DM)	2.67
ADFICP (NRC) (%DM)	2.30
NDFICP (w/sulfite, NRC) (%DM)	4.20
NDIP (w/o sulfite, CPM) (%DM)	8.21
NPN (% Soluble Protein)	55.00

**Amino Acids**                      %CP = %RUP (NRC)

Arginine	4.67
Histidine	2.55
Isoleucine	3.82
Leucine	9.24
Lysine	2.90
Methionine	1.78
Phenylalanine	4.92
Threonine	3.53
Tryptophan	0.94
Valine	4.72

**Carbohydrates**

% NDF (w/sulfite, NRC)	26.00
% NDF (w/o sulfite, CPM)	33.30
% ADF	22.40
% Lignin	5.40
% NFC (NRC Method)	27.90
% NFC (CPM Method)	29.10
% Sugar	8.40
% Starch	4.10
% peNDF (%DM) (CPM)	3.80
NDF digestibility (24hr) (%NDF)	42.00
B2/B3 Kd (%/hr) (CPM)	4.58
Indigestible NDF (% NDF)	39.00

**Fat**

% Crude Fat	5.05
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**Energy Values (NRC)<sup>1</sup>**

% TDN – (undiscounted NRC)	57.5
Metabolizable Energy – 3X	2.33 Mcal/Kg
Net Energy, Lactation – 3X	1.52 Mcal/Kg
Net Energy, Gain – 3X	0.95 Mcal/Kg
Net Energy, Maintenance – 3X	1.52 Mcal/Kg

**DCAD (Na+K)-(Cl+S)** -2980 meq/kg DM

**Minerals                      DM Basis                      Bioavailability**

Calcium	4.54%	0.68 g/g (NRC)
Phosphorus	0.30%	0.70 g/g (NRC)
Magnesium	2.84%	0.64 g/g (NRC)
Potassium	0.48%	0.90 g/g (NRC)
Sodium	0.04%	0.90 g/g (NRC)
Chlorine	10.29%	0.90 g/g (NRC)
Sulfur	0.35%	1.00 g/g (NRC)
Copper	7 ppm	0.04 g/g (NRC)
Iron	649 ppm	0.10 g/g (NRC)
Manganese	88 ppm	0.0075 g/g (NRC)
Zinc	35 ppm	0.15 g/g (NRC)
Ash	21.6%	

**NRC Model**

Protein – A (%CP)	25.60
Protein – B (%CP)	67.40
Protein – C (%CP)	7.00
Protein Digestion Rate (%/h)	3.42
RUP Digestibility	82%

**CPM Model**

ChoA1 (% NFC)		7.50
ChoA2 (% NFC)		28.90
ChoB1 (% NFC)		14.10
ChoB2 (% NFC)		49.50
ChoB3 (% DM)		12.10
ChoC (% DM)		12.96
Protein – A (%CP)		7.30
A (%/h) and % Intest Digest	10000%	100%
Protein – B1 (%CP)		6.00
B1 (%/h) and % Intest Digest	155%	100%
Protein – B2		78.50
B2 (%/h) and % Intest Digest	5.5%	80%
Protein – B3		5.53
B3 (%/h) and % Intest Digest	0.473%	80%
Protein C (%CP)		2.67

**Footnote 1.** As predicted from the NRC 2001 model with input consisting of a 650 kg Holstein cow fed 13.4 kg DM/day at 270 days gestation.