



100% DRY MATTER BASIS	
Moisture	10%

PROTEIN*	
Crude Protein, %DM	34.00
Soluble Protein, %CP	20.70
RDP, %CP	21.14
RUP, %CP	78.86
RUPD, %CP	72.08
dRUP, %DM	24.51
ADIP, %DM	2.71
NDIP, %DM	5.42

FAT	%DM	%FAT
Ether Extract	3.20	
Total Fatty Acid	2.40	
Saturated Fat	0.46	19
Unsaturated Fat	1.94	81

MINERALS	DM
Ash	5.97%
Calcium	0.07%
Phosphorus	.98%
Magnesium	0.41%
Potassium	1.27%
Sulfur	0.74%
Sodium	0.23%
Chloride	0.24%
Iron	98 ppm
Manganese	18 ppm
Zinc	61 ppm
Copper	4 ppm

*RUPD value derived using IDP value of 91.4% RUP from Mjoun et al., 2010. JDS. 93:4144-4154.

AMINO ACIDS	%DM	%CP
Arginine	1.50	4.39
Histidine	0.97	2.84
Isoleucine	1.36	3.96
Leucine	4.15	12.10
Lysine	1.02	2.99
Methionine	0.64	1.88
Phenylalanine	1.60	4.67
Threonine	1.26	3.68
Tryptophan	0.28	0.81
Valine	1.74	5.07
Total EAA	14.52	42.39

CARBOHYDRATES	%DM
Crude Fiber	8.59
ADF	15.80
aNDF	35.60
Lignin	4.70
Sugar (WSC)	6.50
Starch	3.70
Soluble Fiber	11.03
NFC	21.23

POOLS	%DM	RATE (%/H)	INT. DIG.
CHO A1	0	0	0
CHO A4	6.50	40.0	100
CHO B1	3.70	17.0	75
CHO B2	11.03	30.0	75
CHO B3	30.90	7.2	20
CHO C	4.70	0	0
PRO A1	0	200.0	100
PRO A2	7.04	10.4	100
PRO B1	21.54	3.1	100
PRO B2	2.71	5.0	80
PRO C	2.71	0	0



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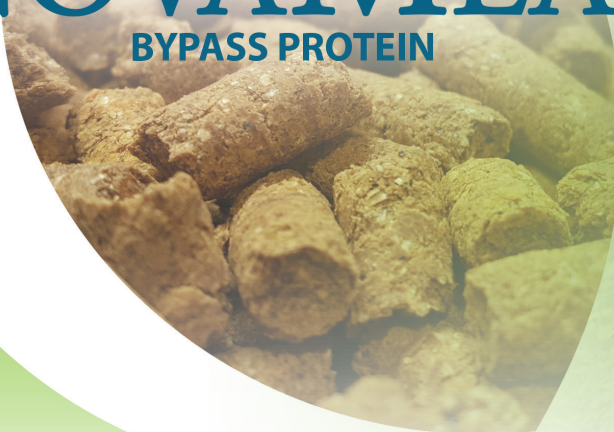
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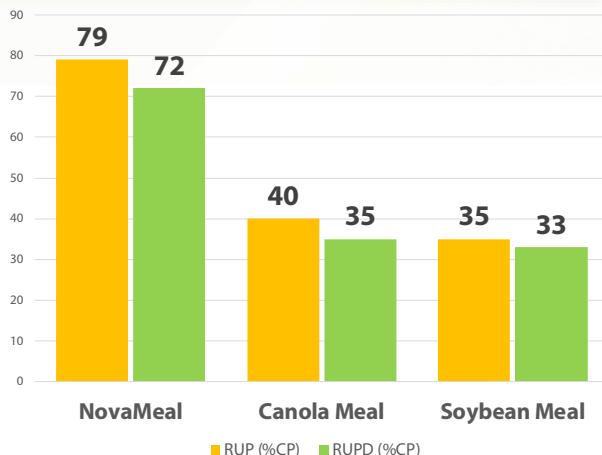
BYPASS PROTEIN



More Absorbable Protein to the Small Intestine

RUP = Rumen undegradable protein or bypass protein

RUPD = The digestibility of RUP is called RUPD which contains protein that is available for absorption in the small intestine.



HIGH QUALITY PROTEIN & FIBER

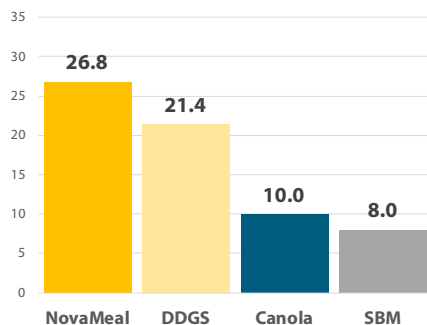
- High in Rumen Undegradable Protein (RUP)
- High RUP Digestibility (RUPD)
- High in Digestible Fiber
- Low in Unsaturated Fat

GREATER VALUE

- ✓ High Inclusion Rates
- ✓ Improved Milk Components
- ✓ Improved Overall Economics

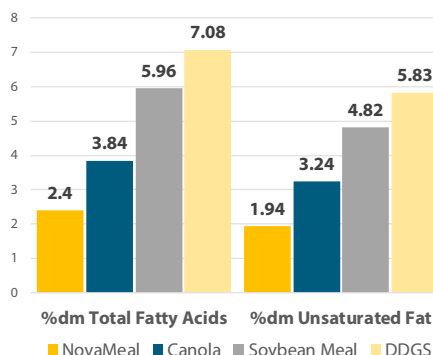
DIGESTIBLE FIBER (dNDF)*

High levels of digestible fiber improve rumen health and metabolizable energy



RUFAL COMPARISON*

Low unsaturated fat levels improve rumen fiber digestion & allow increased feeding rate inclusion



Source: *NDS PRO CNCPS 6.5 Feed Table, 48hr NDFD.



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BYPASS PROTEIN

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