Certificate of Product

PDF creation date: 07/05/2026 14:15:33 UTC

Sample information

Sample name:	Wheat EMC	Analysis date:	07/05/2026 16:06:08 local time
Customer:	Nutrimin A/S	Material:	Wheat
Material variety:	Wheat	Order Id:	

Proximates

All values in product

Nutrient	Result	Unit	Range
Moisture	120	g/kg	80 100 135 145
Dry Matter	880	g/kg	855 865 900 920
Crude Ash	15	g/kg	11 13 17 19
Crude Protein	111	g/kg	77 97 137 157
Protein incl NH3	111	g/kg	
Crude Fat (ee)	15	g/kg	9 13 18 23
Crude fat (AH)	22	g/kg	
Crude Fiber	25	g/kg	20 23 28 30
Starch	613	g/kg	555 579 627 651
Starch (amyloglucosidase)	588	g/kg	
Sugar	27	g/kg	
NFE	713	g/kg	
NDF	119	g/kg	
ADF	35	g/kg	
ADL	7	g/kg	
NSP	118	g/kg	
RNSP	6	g/kg	

Amino Acids

All values in product

Nutrient	Result	Unit	Range	Nutrient	Result	Unit	Range
LYS	3.1	g/kg		LEU	7.3	g/kg	
MET	1.8	g/kg		TYR	3.1	g/kg	
CYS	2.4	g/kg		VAL	4.8	g/kg	
MET+CYS	4.2	g/kg		ALA	4.1	g/kg	
THR	3.2	g/kg		ASP	5.9	g/kg	
TRP	1.3	g/kg		GLU	31.4	g/kg	
ILE	3.8	g/kg		GLY	4.4	g/kg	
ARG	5.2	g/kg		PRO	10.8	g/kg	
PHE	5.0	g/kg		SER	5.1	g/kg	

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Nutrient	Result	Unit	Range
HIS	2.6	g/kg	

Nutrient	Result	Unit	Range
AA total	105.3	g/kg	

Fatty Acids

All values in product

Nutrient	Result	Unit	Range
C16:0	2.0	g/kg	
C16:1	0.1	g/kg	
C18:0	0.1	g/kg	
C18:1	1.6	g/kg	
C18:2	6.0	g/kg	

Nutrient	Result	Unit	Range
C18:3	0.5	g/kg	
Omega 3	0.5	g/kg	
Omega 6	6.0	g/kg	
EFA	7	g/kg	
RUFAL	8.2	g/kg	

Pigs

All values in product

Nutrient	Result	Unit	Range
DE swine (MJ)	14.13	MJ/kg	
DE swine (kCal)	3377	kcal/kg	
ME swine (MJ)	13.81	MJ/kg	
ME swine (kCal)	3301	kcal/kg	

Nutrient	Result	Unit	Range
NE swine (MJ)	10.21	MJ/kg	
NE swine (kCal)	2440	kcal/kg	
NE swine_2015 (MJ)	10.74	MJ/kg	
NE swine_2015 (kCal)	2567	kcal/kg	

Pigs Amino Acids SID

All values in product

Nutrient	Result	Unit	Range
SID LYSpig	2.6	g/kg	
SID METpig	1.6	g/kg	
SID CYSpig	2.2	g/kg	
SID M+Cpig	3.8	g/kg	
SID THRpig	2.8	g/kg	
SID TRPpig	1.2	g/kg	
SID ILEpig	3.4	g/kg	
SID ARGpig	4.7	g/kg	
SID PHEpig	4.5	g/kg	
SID HISpig	2.3	g/kg	

Nutrient	Result	Unit	Range
SID LEUpig	6.6	g/kg	
SID TYRpig	2.8	g/kg	
SID VALpig	4.2	g/kg	
SID ALApig	3.4	g/kg	
SID ASPpig	4.9	g/kg	
SID GLUpig	30.1	g/kg	
SID GLYpig	3.9	g/kg	
SID PROpig	10.3	g/kg	
SID SERpig	4.7	g/kg	

Pigs Trouw Nutrition

All values in product

Nutrient	Result	Unit	Range
DE sow gest.	3446	kcal/kg	
DE sow gest.	14.42	MJ/kg	
DE sow lact.	3425	kcal/kg	
DE sow lact.	14.33	MJ/kg	
ME sow gest.	3365	kcal/kg	
ME sow gest.	14.08	MJ/kg	

Nutrient	Result	Unit	Range
ME sow lact.	3346	kcal/kg	
ME sow lact.	14.00	MJ/kg	
NE sow gest.	2476	kcal/kg	
NE sow gest.	10.36	MJ/kg	
NE sow lact.	2464	kcal/kg	
NE sow lact.	10.31	MJ/kg	

Poultry

All values in product

Nutrient	Result	Unit	Range
MEpoultry (MJ)	13.14	MJ/kg	
MEpoultry (kCal)	3141	kcal/kg	
MElayer (MJ)	13.22	MJ/kg	

Nutrient	Result	Unit	Range
MEbroiler (MJ)	12.16	MJ/kg	
MEbroiler (kCal)	2906	kcal/kg	
MEbroiler2019(MJ)	12.50	MJ/kg	

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Nutrient	Result	Unit	Range
MElayer (kCal)	3159	kcal/kg	

Nutrient	Result	Unit	Range
MEbroiler2019(kCal)	2988	kcal/kg	

Poultry Amino Acids SID

All values in product

Nutrient	Result	Unit	Range
SID LYS po	2.6	g/kg	
SID MET po	1.6	g/kg	
SID CYS po	2.1	g/kg	
SID M+C po	3.7	g/kg	
SID THR po	2.6	g/kg	
SID TRP po	1.2	g/kg	
SID ILE po	3.4	g/kg	
SID ARG po	4.3	g/kg	
SID PHE po	4.5	g/kg	
SID HIS po	2.1	g/kg	

Nutrient	Result	Unit	Range
SID LEU po	6.5	g/kg	
SID TYR po	2.6	g/kg	
SID VAL po	4.2	g/kg	
SID ALA po	3.4	g/kg	
SID ASP po	4.8	g/kg	
SID GLU po	29.8	g/kg	
SID GLY po	3.7	g/kg	
SID PRO po	10.1	g/kg	
SID SER po	4.5	g/kg	

Poultry Amino Acids AFD

All values in product

Nutrient	Result	Unit	Range
AFD LYS po	2.6	g/kg	
AFD MET po	1.6	g/kg	
AFD CYS po	2.1	g/kg	
AFD M+C po	3.6	g/kg	
AFD THR po	2.5	g/kg	
AFD TRP po	1.1	g/kg	
AFD ILE po	3.2	g/kg	
AFD ARG po	4.5	g/kg	
AFD PHE po	4.3	g/kg	
AFD HIS po	2.1	g/kg	

Nutrient	Result	Unit	Range
AFD LEU po	6.2	g/kg	
AFD TYR po	2.6	g/kg	
AFD VAL po	3.9	g/kg	
AFD ALA po	3.1	g/kg	
AFD ASP po	4.5	g/kg	
AFD GLU po	29.5	g/kg	
AFD GLY po	3.4	g/kg	
AFD PRO po	9.6	g/kg	
AFD SER po	4.5	g/kg	

Poultry Trouw Nutrition

All values in product

Nutrient	Result	Unit	Range
ME broiler NutriOpt (MJ)	12.59	MJ/kg	

Nutrient	Result	Unit	Range
ME broiler NutriOpt (kCal)	3009	kcal/kg	

Ruminants NutriOpt

All values in product

Nutrient	Result	Unit	Range
Dynamic Net Energy (DyNE)	1152	-	
DyNE (MJ)	7.95	MJ/kg	
NutriOpt Digestible Intestinal Protein (NDIP)	101	g/kg	
NutriOpt Fermentable Energy and Protein Balance (NFEPB)	-47	g/kg	
Bypass Starch	70	g/kg	
Acid Load	78.6	-	
Fibre Index	22	-	
Glucogenic	257	g/kg	
Ketogenic	187	g/kg	

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Nutrient	Result	Unit	Range
NDIP LYS	6.68	g/kg	
NDIP MET	1.74	g/kg	
NDIP THR	4.08	g/kg	
NDIP HIS	2.01	g/kg	
Fill factor	0.25	-	

Ruminants Digestibility Parameters

All values in product

Nutrient	Result	Unit	Range
Digestibility Coefficient of Organic Matter (DCOM)	88.59	%	

Rumen Kinetics

All values in product

Nutrient	Result	Unit	Range
Rapidly Fermentable Protein (RFP)	44	g/kg	
Total Fermentable Protein (TFP)	85	g/kg	
Rapidly Fermentable Carbohydrates (RFC)	390	g/kg	
Total Fermentable Carbohydrates (TFC)	594	g/kg	

Minerals (Table Values)

(*)=analyzed result

All values in product

Nutrient	Result	Unit	Range	Nutrient	Result	Unit	Range
Calcium	0.4	g/kg		dP swine	0.8	g/kg	
Phosphorus	3.1	g/kg		aP swine	1.1	g/kg	
Sodium	0.1	g/kg		dP poultry	1.2	g/kg	
Potassium	4.3	g/kg		aP Poultry	1.1	g/kg	
Magnesium	0.9	g/kg		dP layer	1.2	g/kg	
Chloride	0.5	g/kg		aP layer	1.1	g/kg	

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