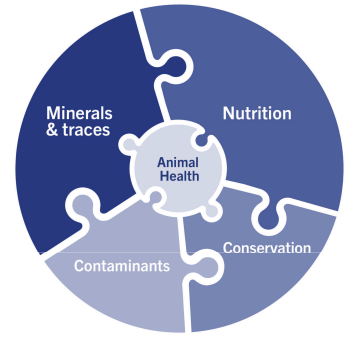


Forage Manager Professional

Forage Manager Professional is part of Eurofins Forage Solutions: to provide you with the tools to increase nutritional value, improve animal health and quality of forage conservation and to identify contaminants



Client code:
Sample number:
Crop: Gras ingekuild
Harvest date: 12/12/2025

Sampling date: 12/12/2025
Date of receipt: 12/12/2025
Reporting date: 16/12/2025

What are the main characteristics of my forage?

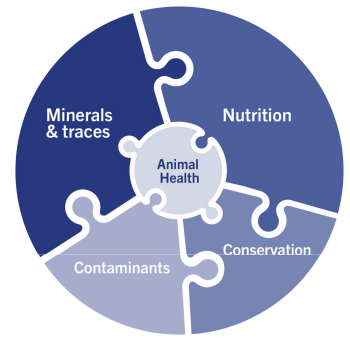
		Result	Target value	Optimal
In gram/kg, unless stated differently	Dry matter	223	300 - 500	
	Crude ash	274	100 - 130	
	Organic Matter	726	870 - 900	
	DOM (%)	48.4	76 - 80	
	Crude fibre	263	230 - 280	
	Crude protein total	122	170 - 210	
	Sugar	<9	20 - 60	
	Crude fat	30	30 - 50	

What is the nutritional value for my cow?

		Result	Target value	
VEM/DVE system	VEM	423	880 - 940	
	VEM '22	388	860 - 920	
	VEVI	366	900 - 980	
	VOS	352	680 - 720	
	DVE+	11	60 - 80	
	OEB+	35	40 - 80	
	FOSp+	342	525 - 600	
	OEB 2 hours+	49	40 - 95	
	FOSp 2 hours+	143	225 - 300	
DVE '91	DVE '91	-7	70 - 85	
	OEB '91	45	25 - 65	
	FOS	217	560 - 600	
	Lysine	0.6		
	Methionine	0.4		

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High quality forage is the basis of your ration. By analyzing the nutritional value of your forage, you can adjust and balance the cow's ration for optimal results.



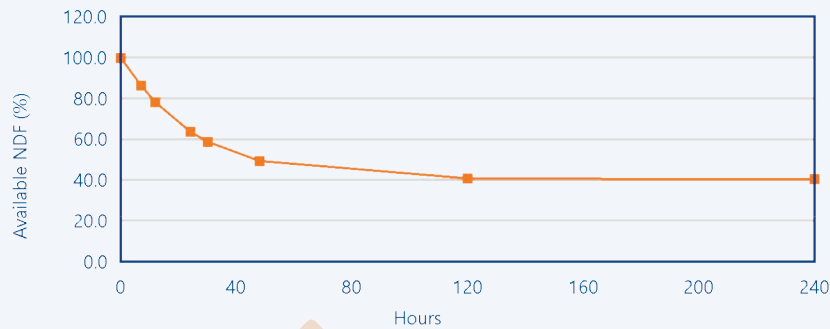
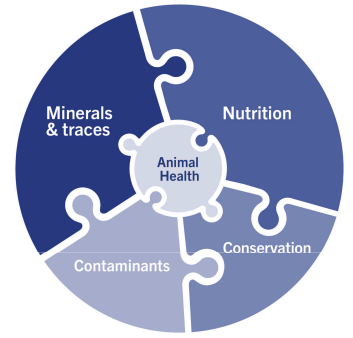
NRC	RFV	Result				
		125				
	Energy	1X	3X			
	TDN (%)	44.7	44.7			
	NEL (Mcal)	0.92	0.92			
	NEM (Mcal)	0.81	0.81			
	NEG (Mcal)	0.27	0.27			
	Protein fraction	Protein	Dry matter	Fiber	NDF	Dry matter
	Crude Protein (%)	86.1	10.5	ADF (%)	65.5	31.5
	Ammonia (%)	13.8	1.7	ADL (%)	9.4	4.5
	Soluble Protein (%)	63.1	7.7	NDFdig 7h (%)	13.6	
	NDICP (%)	10.7	1.3	NDFdig 12h (%)	22.0	
	ADICP (%)	3.3	0.4	NDFdig 24h (%)	36.3	
				NDFdig 30h (%)	41.3	
				NDFdig 48h (%)	50.9	
				NDFdig 120h (%)	59.5	
				NDFdig 240h (%)	60.0	
				Indigestible NDF (%)	39.9	19.2
CNCPS	Protein pool	Protein	Dry matter	Carbohydrates pool	NFC	Dry matter
	A1 (%)	13.8	1.7	A1 (%)	24.0	2.0
	A2 (%)	49.3	6.0	A2 (%)	34.3	2.8
	B1 (%)	26.3	3.2	A4 (%)	11.0	0.9
	B2 (%)	7.4	0.9	B1 (%)	0.0	0.0
	C (%)	3.3	0.4	B2 (%)	30.6	2.5
	RDP (%)	72.2	8.8			
	RUP (%)	27.8	3.4			

What is the fibrous content of my forage?

		Result	Target value	
In gram/kg, unless stated differently	Crude fibre	263	230 - 280	<div><div></div></div>
	NDF	480	420 - 500	<div><div></div></div>
	NDF N-free	467		<div><div></div></div>
	ADF	315	240 - 290	<div><div></div></div>
	Hemicellulosis	166	130 - 260	<div><div></div></div>
	ADL	45	20 - 30	<div><div></div></div>
	Cellulosis	269	210 - 270	<div><div></div></div>
	NDF degradability (% NDF)	40.0	70 - 80	<div><div></div></div>
	Structure value	3.0	2.6 - 3.0	<div><div></div></div>
	Satiety value	1.16	0.95 - 1.10	<div><div></div></div>

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Degraded NDF

time (h)	NDF degraded (g/kg DM)	% NDF degraded
30	189.3	41.1
120	272.1	59.1
240	274.4	59.6

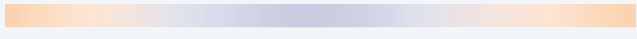

What is the protein content of my forage?

In gram/kg, unless stated differently		Result	Target value	
Crude protein		105	160 - 190	
Crude protein total		122	170 - 210	
Soluble crude protein (%CP)		63.0	40 - 60	
Ammonia (% CP)		13.8	0 - 10	
Nitrate		0.7	0 - 7.5	
N-index		78		
S-Index		82		

What is the VFA and carbohydrate content of my forage?

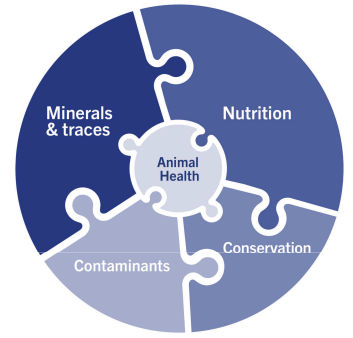
In gram/kg, unless stated differently		Result	Target value	
Acetic acid		13	10 - 20	
Butyric acid		4.20	0 - 1.5	
Lactic acid		28	5.4 - 6.5	
Sugar		<9	20 - 60	

What is the preservation of my forage?

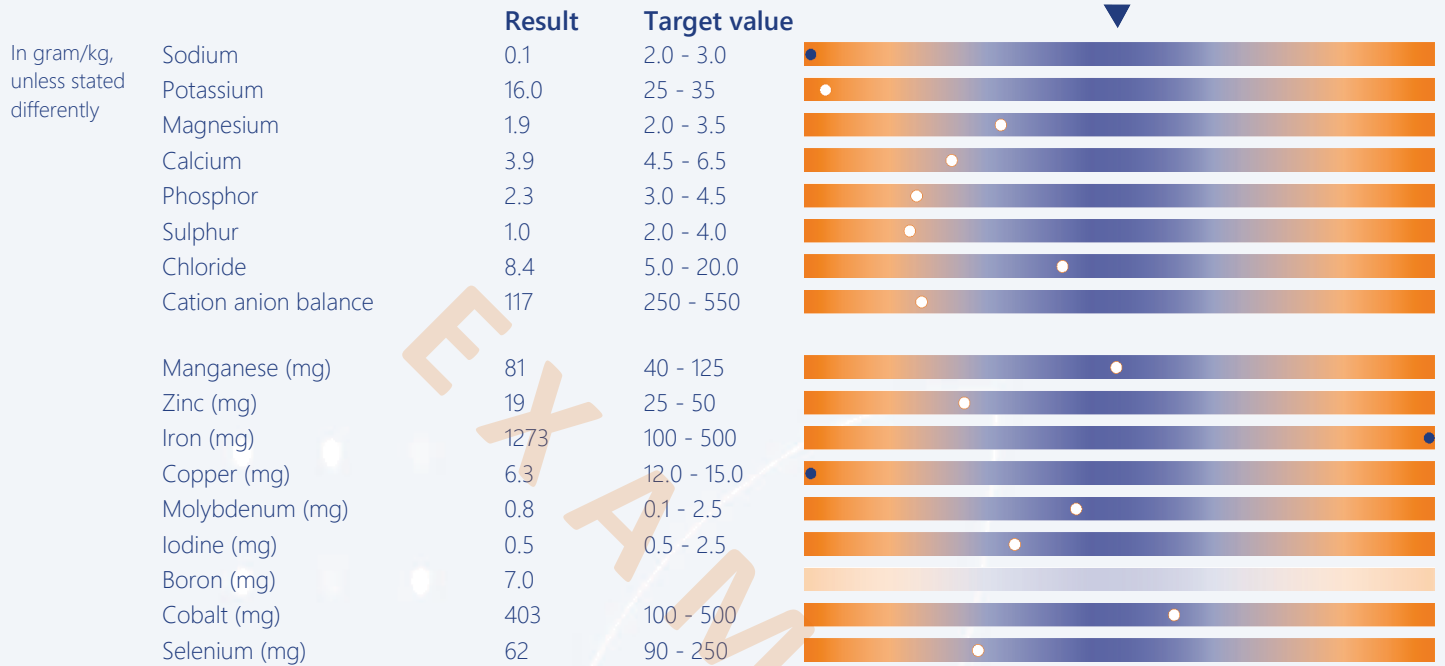
	Result	Target value	
pH	5.0	3.6 - 4.3	
Conservation index	59		
Heating index	46		

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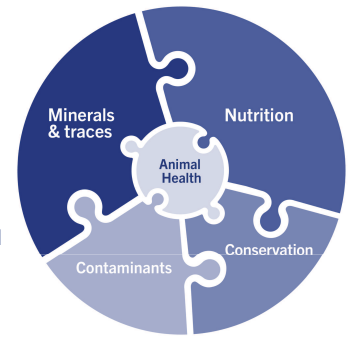
What is the mineral and traces content of my forage?



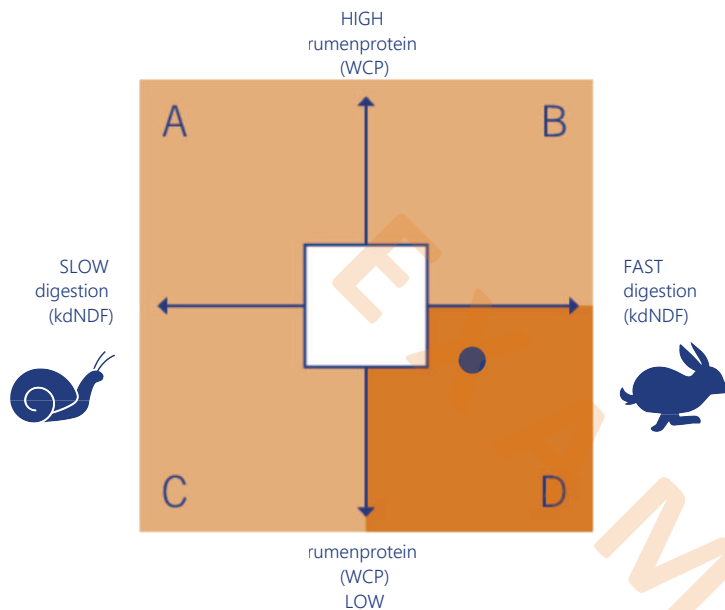
● Result out of graph range

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The rumen character shows how the forage behaves in the digestive system and which rationing measures are required for maximum use of the feed value



What is the rumen character of my forage?



Degradation characteristics	Result (DM)	Target value
kdOM (%/h)	3.2	
kdNDF (%/h)	5.5	
kdCP (%/h)	1.7	
WCP (g)	64	

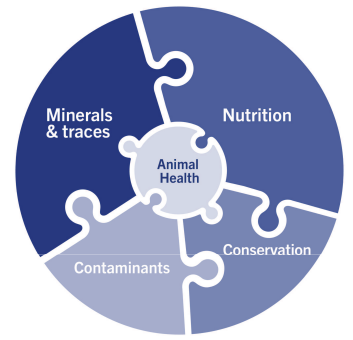
Explanation:

kd = digestion rate of organic matter, NDF and crude protein
WRE = washable fraction of crude protein

	Signals	Ration correction	Silage management
Optimal	<ul style="list-style-type: none"> High milk yield Healthy cows Good feed efficiency 	<ul style="list-style-type: none"> Silage in balance, no special correction required Fits in a lot of rations 	<ul style="list-style-type: none"> Fertilisation, cutting moment, dry matter content are in balance
A HIGH rumen protein SLOW digestion	<ul style="list-style-type: none"> High milk urea Hard feces Lower DMI Low milk yield 	<ul style="list-style-type: none"> Rumen degradable energy, bypass protein Bypass soybean meal Wheat Barley 	<ul style="list-style-type: none"> Cut younger stage Apply nitrogen earlier
B HIGH rumen protein FAST digestion	<ul style="list-style-type: none"> Liquid feces Reduced milk fat content Risk of rumen acidosis 	<ul style="list-style-type: none"> Slowly degradable energy, bypass protein Bypass soybean meal Brewers grain Maize silage 	<ul style="list-style-type: none"> Ensilage higher DM
C LOW rumen protein SLOW digestion	<ul style="list-style-type: none"> Hard, light coloured feces Higher milk fat content High effective NDF Low milk yield 	<ul style="list-style-type: none"> Rumen degradable protein, rumen degradable energy Combi Wheat / rapeseed meal 	<ul style="list-style-type: none"> Cut younger stage Apply more nitrogen
D LOW rumen protein FAST digestion	<ul style="list-style-type: none"> Reduced milk urea Liquid feces Reduced milk protein content Reduced milk production 	<ul style="list-style-type: none"> Rumen degradable protein, slow degradable energy Rapeseed meal Crushed wheat Sunflower meal 	<ul style="list-style-type: none"> Apply more nitrogen Ensilage higher DM

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Methods

Test	Code	Method	Performed by	Accreditation
Luchtdroge stof (60°C, gewas, plantmateriaal)	TW0KT	Interne Methode GEWAS.OVB, Drogen	Eurofins Agro Testing Wageningen	ISO/IEC 17025:2017 RvA L 122
Ruw As (550°C) enkelvoud	TW0Q4	Gravimetrie	Eurofins Agro Testing Wageningen	
Mineralen en Spoorlementen	TW0QB	Interne Methode SPZ2, ICP-MS	Eurofins Agro Testing Wageningen	
NIRs grassilage	TW0R3	Spectrofotometrie (NIR)	Eurofins Agro Testing Wageningen	

The analysis has started on 15/12/2025.

Disclaimer

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