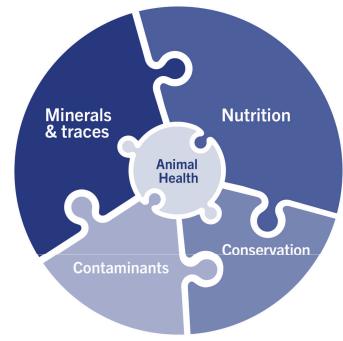


# Forage Manager Professional

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?

In gram/kg,  
unless stated  
differently

	<b>Result</b>	<b>Target value</b>	Optimal
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?

VEM/DVE  
system

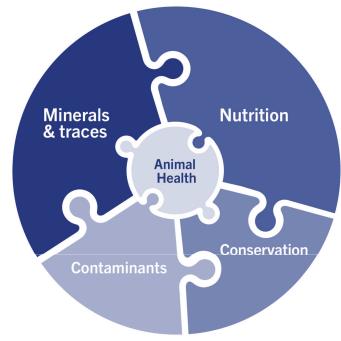
	<b>Result</b>	<b>Target value</b>
VEM	423	880 - 940
VEM '22	388	860 - 920
VEVI	366	900 - 980
VOS	352	680 - 720
DVE+	11	60 - 80
OEB+	35	40 - 80
FOSp+	342	525 - 600
OEB 2 hours+	49	40 - 95
FOSp 2 hours+	143	225 - 300

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.



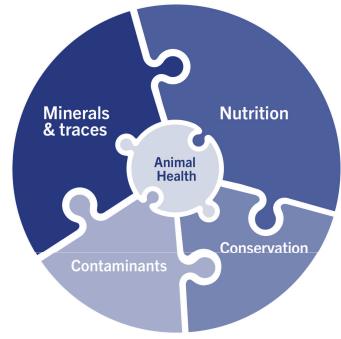
		Result			
NRC	RFV		125		
	<b>Energy</b>	<b>1X</b>	<b>3X</b>		
	TDN (%)	44.7	44.7		
	NEL (Mcal)	0.92	0.92		
	NEM (Mcal)	0.81	0.81		
	NEG (Mcal)	0.27	0.27		
	<b>Protein fraction</b>	<b>Protein</b>	<b>Dry matter</b>	<b>Fiber</b>	<b>NDF</b>
	Crude Protein (%)	86.1	10.5	ADF (%)	65.5
	Ammonia (%)	13.8	1.7	ADL (%)	9.4
	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	<b>Protein pool</b>	<b>Protein</b>	<b>Dry matter</b>	<b>Carbohydrates pool</b>	<b>NFC</b>
	A1 (%)	13.8	1.7	A1 (%)	24.0
	A2 (%)	49.3	6.0	A2 (%)	34.3
	B1 (%)	26.3	3.2	A4 (%)	11.0
	B2 (%)	7.4	0.9	B1 (%)	0.0
	C (%)	3.3	0.4	B2 (%)	30.6
	RDP (%)	72.2	8.8		2.0
	RUP (%)	27.8	3.4		2.8
					0.9
					0.0
					2.5

## What is the fibrous content of my forage?

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

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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	Optimal
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?

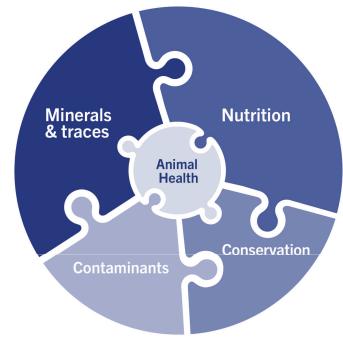
In gram/kg, unless stated differently	Result	Target value	Optimal
Acetic acid	13	10 - 20	●
Butyric acid	4.20	0 - 1.5	●
Lactic acid	28	5.4 - 6.5	●
Sugar	<9	20 - 60	●

## What is the preservation of my forage?

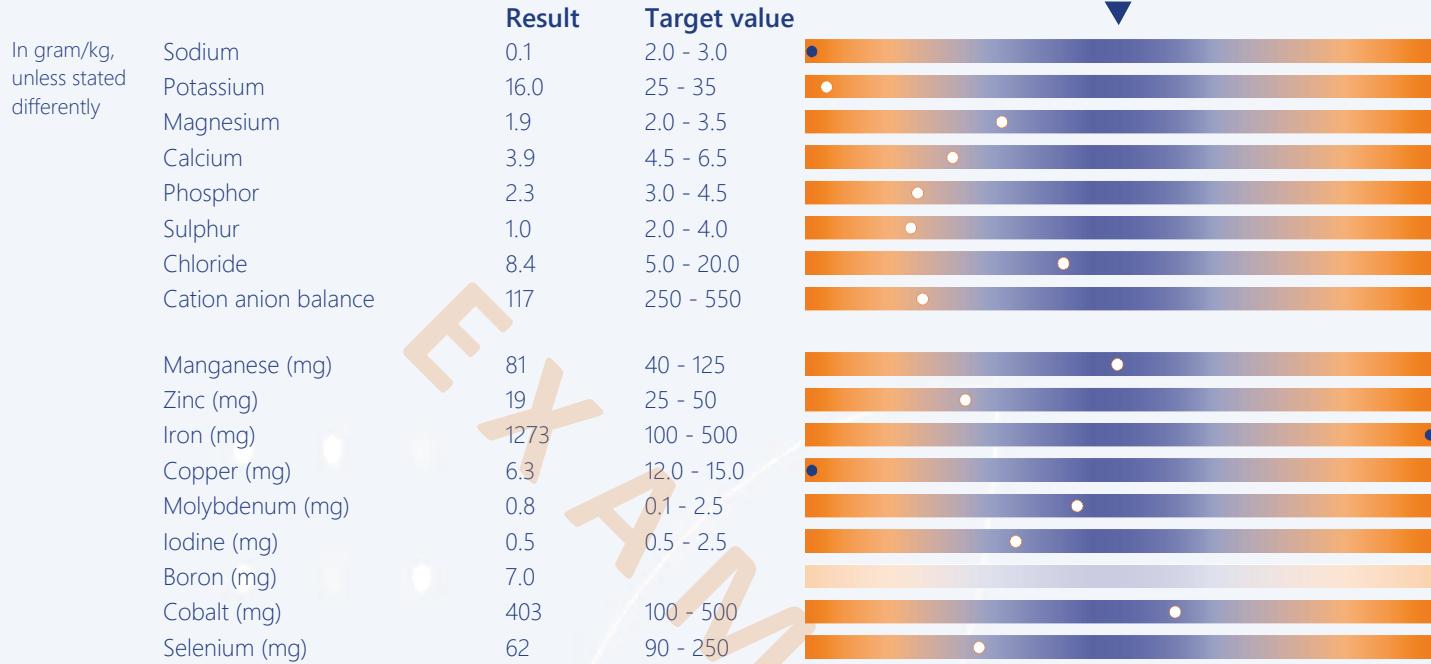
	Result	Target value	Optimal
pH	5.0	3.6 - 4.3	●
Conservation index	59		●
Heating index	46		●

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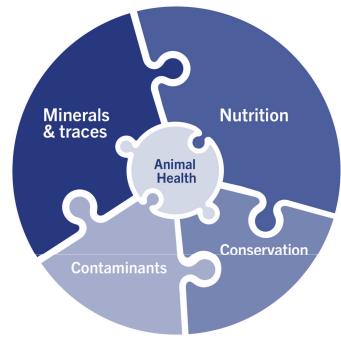
## What is the mineral and traces content of my forage?



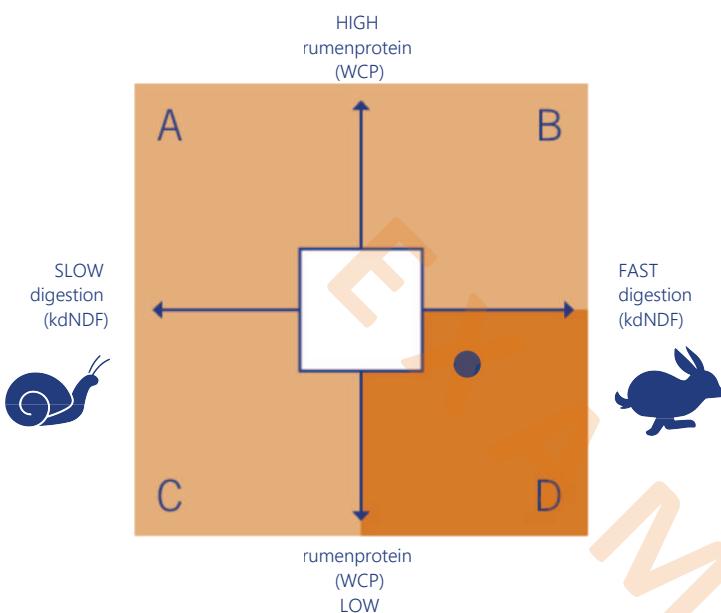
● Result out of graph range

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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	

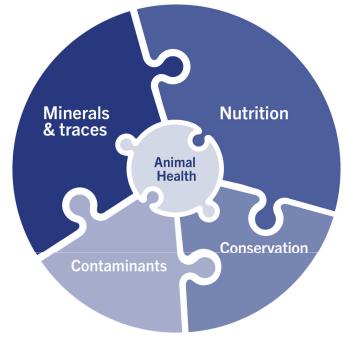
### Explanation:

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

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

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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 Spoorlelementen	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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This report has been released under the responsibility of Lies de Zutter, Assistent verkoopleider

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