

# READ A LABEL

## How to know if a feed correctly meets the nutritional demands of your horse?

### INFORMATION SUPPLIED BY LABELS

#### COMPOSITION

Ingredients are listed by their **decreasing level of incorporation** (the most to the least).

In consequence it is recommended to avoid a diet made up of raw ingredients and/or by-products which we have previously mentioned, above all if they are featured in the first lines.

#### ANALYTICAL CONSTITUENTS



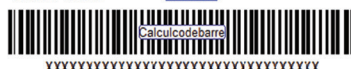
Only the display of certain constituents is obligatory: **crude protein, crude oils and fats, crude cellulose (fibre) and crude ash**. Mentioning other values is optional (except for particular cases) and engages the manufacturers' responsibility as to the indicated values.

Whilst **the display of the analytical constituents is obligatory, it actually provides us with little information on the quality of the ingredients**. Effectively, the same value for a given constituent can be obtained by using a by-product or a noble raw ingredient. For example, distillers' spent grains, dehydrated co-products from the fabrication of ethanol contain the same quantity of crude protein as skimmed milk powder, that is to say 34% crude. However the quality of the proteins is far from being identical...

**To be aware of the true nutritional value of a feed, we must use the levels of essential nutriment: starch, omega 3 and 6, lysine, etc.**

To demonstrate, we have created a feed (fictive and non-commercialised) based upon by-products and declassified raw ingredients ("BY-PRODUCT" FORMULA) of which the obligatory analytical values are identical to ADULT ENERGY (Refer to the labels on page 76).

*Victory is prepared at mealtimes too.*

ADULT ENERGY																																																																																					
<p>FR - Aliment granulé pour chevaux adultes au travail.</p> <p><b>Composition :</b> Orge, Avoine, Luzerne 17 cheval, Graines de lin extrudées, Maïs sans OGM*, Tourteau de soja sans OGM*, Sépiolite, Lithotamne, Phosphate bicalcique, Oligo-éléments, Vitamines.</p> <p>* Garantit à 99.1 % - Céréales d'origine française</p> <p><b>Constituants analytiques</b></p> <table border="0"> <tr> <td>Humidité.....11.5 %</td> <td><b>Oligo-éléments (kg)</b></td> </tr> <tr> <td>Protéines brutes.....12 %</td> <td>Zinc (chlorure tri hydroxyde).....90 mg</td> </tr> <tr> <td>Matières grasses brutes.....4 %</td> <td>Cuivre (chlorure tri hydroxyde).....35 mg</td> </tr> <tr> <td>Cellulose brute.....9.5 %</td> <td>Manganèse (oxyde).....50 mg</td> </tr> <tr> <td>Cendres brutes.....8 %</td> <td>Fer (sulfate).....35 mg</td> </tr> <tr> <td>Calcium.....1 %</td> <td>Iode (iodate de calcium).....0.5 mg</td> </tr> <tr> <td>Phosphore.....0.5 %</td> <td>Sélénium (sélénométhionine).....0.5 mg</td> </tr> <tr> <td>Magnésium.....0.4 %</td> <td><b>Vitamines (kg)</b></td> </tr> <tr> <td><b>Glucides (kg)</b></td> <td>Vitamine A.....15000 UI</td> </tr> <tr> <td>Amidon.....345 g</td> <td>Vitamine D3.....1500 UI</td> </tr> <tr> <td>Amidon + sucres.....370 g</td> <td>Vitamine E.....400 mg</td> </tr> <tr> <td><b>Acides gras essentiels (kg)</b></td> <td>Vitamine K3.....3.5 mg</td> </tr> <tr> <td>Acide linoléique (Omega 3).....10.5 g</td> <td>Vitamine B1 (thiamine).....20 mg</td> </tr> <tr> <td>Acide linoléique (Omega 6).....10.5 g</td> <td>Vitamine B2 (riboflavine).....20 mg</td> </tr> <tr> <td><b>Acides aminés (kg)</b></td> <td>Vitamine B3 (PP ou niacine).....40 mg</td> </tr> <tr> <td>Lysine.....5100 mg</td> <td>Vitamine B5 (acide pantothénique).....20 mg</td> </tr> <tr> <td>Thréonine.....4450 mg</td> <td>Vitamine B6 (pyridoxine).....10 mg</td> </tr> <tr> <td>Méthionine.....2000 mg</td> <td>Vitamine B8 (biotine).....0.5 mg</td> </tr> <tr> <td><b>Valeurs de rationnement (d'après INRA 2012)</b></td> <td>Vitamine B9 (acide folique).....15 mg</td> </tr> <tr> <td>UFC.....0.96</td> <td>Vitamine B12 (cyanocobalamine).....0.15 mg</td> </tr> <tr> <td>MADC.....84.5 g</td> <td></td> </tr> </table>	Humidité.....11.5 %	<b>Oligo-éléments (kg)</b>	Protéines brutes.....12 %	Zinc (chlorure tri hydroxyde).....90 mg	Matières grasses brutes.....4 %	Cuivre (chlorure tri hydroxyde).....35 mg	Cellulose brute.....9.5 %	Manganèse (oxyde).....50 mg	Cendres brutes.....8 %	Fer (sulfate).....35 mg	Calcium.....1 %	Iode (iodate de calcium).....0.5 mg	Phosphore.....0.5 %	Sélénium (sélénométhionine).....0.5 mg	Magnésium.....0.4 %	<b>Vitamines (kg)</b>	<b>Glucides (kg)</b>	Vitamine A.....15000 UI	Amidon.....345 g	Vitamine D3.....1500 UI	Amidon + sucres.....370 g	Vitamine E.....400 mg	<b>Acides gras essentiels (kg)</b>	Vitamine K3.....3.5 mg	Acide linoléique (Omega 3).....10.5 g	Vitamine B1 (thiamine).....20 mg	Acide linoléique (Omega 6).....10.5 g	Vitamine B2 (riboflavine).....20 mg	<b>Acides aminés (kg)</b>	Vitamine B3 (PP ou niacine).....40 mg	Lysine.....5100 mg	Vitamine B5 (acide pantothénique).....20 mg	Thréonine.....4450 mg	Vitamine B6 (pyridoxine).....10 mg	Méthionine.....2000 mg	Vitamine B8 (biotine).....0.5 mg	<b>Valeurs de rationnement (d'après INRA 2012)</b>	Vitamine B9 (acide folique).....15 mg	UFC.....0.96	Vitamine B12 (cyanocobalamine).....0.15 mg	MADC.....84.5 g		<p>GB - Pelleted feed for adult horses at work.</p> <p><b>Composition :</b> Barley, Oats, Alfalfa 17, Extruded linseed, Maize without GMO*, Soya bean meal without GMO*, Sepiolite, Lithotamnion, Dicalcium phosphate, Trace elements, Vitamins.</p> <p>* Guaranteed 99.1 % - Cereals of french origin</p> <p><b>Nutrient analysis (kg)</b></p> <table border="0"> <tr> <td>Humidity.....11.5 %</td> <td><b>Trace elements (kg)</b></td> </tr> <tr> <td>Crude protein.....12 %</td> <td>Zinc (chloride tri hydroxide).....90 mg</td> </tr> <tr> <td>Crude oil and fats.....4 %</td> <td>Copper (chloride tri hydroxide).....35 mg</td> </tr> <tr> <td>Crude fibre.....9.5 %</td> <td>Manganese (oxide).....50 mg</td> </tr> <tr> <td>Ash.....8 %</td> <td>Iron (sulphate).....35 mg</td> </tr> <tr> <td>Calcium.....1 %</td> <td>Iodine (calcium iodate).....0.5 mg</td> </tr> <tr> <td>Phosphorus.....0.5 %</td> <td>Selenium (selenomethionin).....0.5 mg</td> </tr> <tr> <td>Magnesium.....0.4 %</td> <td><b>Vitamins (kg)</b></td> </tr> <tr> <td><b>Carbohydrates (kg)</b></td> <td>Vitamin A.....15000 UI</td> </tr> <tr> <td>Starch.....345 g</td> <td>Vitamin D3.....1500 UI</td> </tr> <tr> <td>Starch + sugar.....370 g</td> <td>Vitamin E.....400 mg</td> </tr> <tr> <td><b>Essential fatty acids (kg)</b></td> <td>Vitamin K3.....3.5 mg</td> </tr> <tr> <td>Linolenic acid (omega 3).....10.5 g</td> <td>Vitamin B1 (thiamine).....20 mg</td> </tr> <tr> <td>Linoleic acid (omega 6).....10.5 g</td> <td>Vitamin B2 (riboflavin).....20 mg</td> </tr> <tr> <td><b>Amino acids (kg)</b></td> <td>Vitamin B3 (niacin ou PP).....40 mg</td> </tr> <tr> <td>Lysine.....5100 mg</td> <td>Vitamin B5 (pantothenic acid).....20 mg</td> </tr> <tr> <td>Threonine.....4450 mg</td> <td>Vitamin B6 (pyridoxine).....10 mg</td> </tr> <tr> <td>Methionine.....2000 mg</td> <td>Vitamin B8 (biotin).....0.5 mg</td> </tr> <tr> <td><b>Rationing values (kg)</b></td> <td>Vitamin B9 (folic acid).....15 mg</td> </tr> <tr> <td>DE (Digestible Energy).....12.9 MJ</td> <td>Vitamin B12 (cyanocobalamin).....0.15 mg</td> </tr> <tr> <td>MADC.....84.5 g</td> <td></td> </tr> </table>	Humidity.....11.5 %	<b>Trace elements (kg)</b>	Crude protein.....12 %	Zinc (chloride tri hydroxide).....90 mg	Crude oil and fats.....4 %	Copper (chloride tri hydroxide).....35 mg	Crude fibre.....9.5 %	Manganese (oxide).....50 mg	Ash.....8 %	Iron (sulphate).....35 mg	Calcium.....1 %	Iodine (calcium iodate).....0.5 mg	Phosphorus.....0.5 %	Selenium (selenomethionin).....0.5 mg	Magnesium.....0.4 %	<b>Vitamins (kg)</b>	<b>Carbohydrates (kg)</b>	Vitamin A.....15000 UI	Starch.....345 g	Vitamin D3.....1500 UI	Starch + sugar.....370 g	Vitamin E.....400 mg	<b>Essential fatty acids (kg)</b>	Vitamin K3.....3.5 mg	Linolenic acid (omega 3).....10.5 g	Vitamin B1 (thiamine).....20 mg	Linoleic acid (omega 6).....10.5 g	Vitamin B2 (riboflavin).....20 mg	<b>Amino acids (kg)</b>	Vitamin B3 (niacin ou PP).....40 mg	Lysine.....5100 mg	Vitamin B5 (pantothenic acid).....20 mg	Threonine.....4450 mg	Vitamin B6 (pyridoxine).....10 mg	Methionine.....2000 mg	Vitamin B8 (biotin).....0.5 mg	<b>Rationing values (kg)</b>	Vitamin B9 (folic acid).....15 mg	DE (Digestible Energy).....12.9 MJ	Vitamin B12 (cyanocobalamin).....0.15 mg	MADC.....84.5 g	
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<p><b>Conseils d'utilisation - Pour plus de détails voir fiche technique</b></p> <p>Densité : 1 L = 700 g Quantités pour un cheval de 500 kg, nourri avec du foin de prairie à volonté, une pierre de sel et de l'eau propre à disposition : 2.8 kg (4 L) à 5.6 kg (8 L) par jour, de préférence en 3 repas. Donner 4 L maximum par repas. Conserver dans un endroit sec, à l'abri de la lumière, à une température comprise entre 5 et 20° C.</p>	<p><b>Instructions - For more details, consult the technical datasheet</b></p> <p>Density : 1 L = 700 g Quantities for horses of 500 kg fed ad-lib quality hay with free access to a pure salt block and clean water: 2.8 kg (4 L) to 5.6 kg (8 L) per day, preferably in 3 feeds. Feed a maximum of 4L per feed. Keep in a dry place, protected from light, at a temperature between 5 and 20° C.</p>																																																																																				
<p><b>4</b></p>  <p><b>SARTILLY INDUSTRIES SARL</b> ZA des Mesnils - 50520 - Juvigny Le Tertre Tel : +33 2 33 91 35 60 www.reverdy.fr FR50323001</p>	<p><b>5</b></p> <p>Poids : 25 kg Date fin de validité : <input type="text" value="Dateperempt"/> Numéro du lot : <input type="text" value="NUMLOT"/></p>  <p>ean13 XXXXXX XXXXXX</p>  <p>Calculcodebarre XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</p>																																																																																				

**1 Very important**  
Ingredients are cited by their decreasing level of incorporation (from the greatest amount to the least).  
Reverdy feeds contain NO BY-PRODUCTS.

**2**

- The quality of our nutrients is regularly verified by independent laboratories.
- Guaranteed values, from certified suppliers.

**3** Our commitment towards quality at every level:  
- Careful following of our raw ingredients.  
- A certified manufacturing process.

**4** QR Code read using your smartphone to directly access the technical data sheet for that feed.

**5** An irreproachable traceability, from the arrival of raw ingredients until delivery to our customers.

# COMPARATIVE STUDY OF TWO FEEDS

## HUMIDITY

Providing it does not exceed 14% crude, it is not obligatory to display the humidity level. However this value is important as it translates the foods' aptitude for preservation. **The more humid the feed is, the lesser it will be preserved.**

## CARBOHYDRATES

The "BY-PRODUCT FORMULA" is composed of wheat starch (contained in the wheat grains and in the bran), very fermentative and digestible. Furthermore, because of the addition of molasses, it contains 2.5 times as many simple sugars as ADULT ENERGY. To sum up, this feed is **rich in fast** to moderately **sugars** which are:

- **Very fermentative**, which increases the risks of appearance of gastric ulcers.
  - **Highly digestible**, thus a high glycaemic index, from which there is a non-negligible risk of the following health problems appearing: **tying-up, behavioural problems (excitability etc.), hormonal problems (equine metabolic syndrome, Cushing's disease etc.), laminitis, osteo-articular problems (OCD etc.)**. Furthermore, the massive arrival of sugar in the bloodstream after the meal will lead to the storing of sugars. **This storage will take the form of fat** giving the horse corpulence.
- = A deception, because the horse looks normal, but it results more in the clogging of its organism rather than in its good health.

On the other hand, ADULT ENERGY is mainly composed by barley starch, slow releasing and not as prone to ferment. It is associated with maize and oat starches which are more digestible but present in smaller quantities. As for simple sugars, it contains only those naturally present in the raw ingredients. To sum up, ADULT ENERGY principally provides slow releasing sugars, protecting carbohydrate metabolism, whilst at the same time favouring the storage of energy into the muscles. It is therefore more **favourable to performance and limits a surcharge in fat**, ensuing a more harmonious morphology.

## PROTEINS

The principal protein sources of the "BY-PRODUCT" FORMULA are, in decreasing order: wheat bran, maize gluten meal and distillers spent grains. Although the crude protein content is identical to ADULT ENERGY, this feed contains **30% less lysine and 25% less threonine**. So, even with an identical crude protein content to ADULT ENERGY, 5.5 kg of this feed + 8 kg of ordinary hay **does not cover the daily requirements in lysine and threonine for a 500kg adult horse in very hard work**: It provides 46.5g of lysine for a daily requirement of 54 g (INRA 2012). Furthermore, given that protein synthesis is carried out to the extent of lysine supply, as lysine is the most limiting amino acid (see the chapter "proteins", the diagram of the bucket), use of other amino acids cannot be fully optimised. **They must be eliminated by the emunctory organs (liver, intestines, kidneys, skin, etc.) which, yet again, burdens the organism.**

Regarding ADULT ENERGY, the principal protein sources are by decreasing order: alfalfa 17 (horse), soya bean meal 48 and extruded linseed. This association creates a feed containing **good quality protein**. Effectively:

- Satisfactory **lysine content** compared to the crude protein level.
- Feeding 5.5 kg of ADULT ENERGY + 8 kg of ordinary **hay meets the lysine requirements of a 500 kg adult horse in very hard work**: supplies 54.5 g of lysine for a daily requirement of 54 g.

## LIPIDS

Only 24% of the total fat and oil content of the “BY-PRODUCT FORMULA” are omega 3s and omega 6s, the greater part of the rest is made up of saturated fatty acids found in palm oil. Furthermore the omega3/omega 6 ratio is equal to 0.1. To sum up, the fats and oils contained within this feed are **unfavourable to the good health of the organism**. Effectively:

- The part omega 3 + omega 6 is insufficient.
- The omega 3/omega 6 ratio is too low, the objective is to be higher than 1.
- The feed is **high in saturated fatty acids**, which are stored in priority, facilitating corpulence.

= A deception, because the horse looks normal but it results more in the clogging of its organism rather than in its good health.

Concerning ADULT ENERGY, omega 3s and omega 6s represent 55% of the total fat and oil content, thus more than a half. In addition the omega 3/omega 6 ratio equals 1.1. To sum up, the fats and oils contained within this feed **favour the good health of the organism** (immunity, fertility, regulation of inflammation, etc.). Effectively:

- Omega 3s + omega 6s make up a big part of the crude oil and fat content.
- The omega 3/omega 6 ratio is greater than 1 thanks to the extruded linseed.
- This feed is **low in saturated fatty acids**.

## MINERALS

The “BY-PRODUCT FORMULA” is mainly composed from cereal envelopes, **rich in phytate phosphorus**. For example, wheat bran contains 3 times the phosphorus and 4.5 times the phytate phosphorus as barley or oats. Phytate phosphorus limits calcium and trace element absorption.

In consequence, horses that eat the “BY-PRODUCT FORMULA” can be susceptible to suffer from **assimilation deficiencies** of some minerals although the feed itself provides satisfactory quantities.

## TO SUM UP

A healthy and balanced diet provides all the nutrients indispensable to the correct functioning of the organism whilst limiting clogging-up (liver, kidneys, intestines etc.). Thus, it favours performance and allows your horse to maintain its good health in the long term.

# TO SUM UP

There can be the same quantity of proteins, lipids and carbohydrates  
but **raw ingredients quality is very different!**

PROTEINS	
“BY-PRODUCT FORMULA”	“ADULT ENERGY FORMULA”
Wheat bran	Alfalfa 17 (horse)
Maize gluten meal	French soya bean meal without GMO <small>(guaranteed to 99,1 %)</small>
Distillers spent grains	Bleu Blanc Cœur extruded linseeds

Optimal daily requirement of lysine (for a 500 kg adult horse in work) = 54 g

For 5.5 kg of feed + 8 kg of hay / day:	
46.5 g	54.5 g

In the “by-product formula” there is 30 % less lysine and 25 % less threonine

LIPIDS	
“BY-PRODUCT FORMULA”	“ADULT ENERGY FORMULA”
Omega 3 & 6 = 27.5 % of fats Rest is palm oil!	Omega 3 & 6 = 55 % of fats

Goal: omega 3 / omega 6 ratio  $\geq 1$

0.1	1.1
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✓ High in saturated fatty acids  
 ✓ Facilitating corpulence  
 ✓ Horse looks normal but:  
**CLOGGING OF ITS ORGANISM**

≠

✓ Low in saturated fatty acids  
 ✓ Favours the good health of the  
 organism (immunity, fertility, regulation  
 of inflammation)

CARBOHYDRATES	
“BY-PRODUCT FORMULA”	“ADULT ENERGY FORMULA”
Wheat starch => Highly digestible thus very fermentative for stomach	Barley starch
	Maize and oat starches => more digestible but present in smaller quantities
<b>Addition of MOLASSES = SUGAR</b> => 2.5 times as many sugar as Adult Energy	No simple sugar

**FAST SUGAR:**

- ✓ Increases the risks of appearance of gastric ulcers
- ✓ Very digestible = high glycaemic index => “tying-up”, behavioural problems (nervosity), hormonal problems, etc.
- ✓ The storage will take the form of fat => overweight



**SLOW SUGAR:**

- ✓ Favourable to performance
- ✓ Limits a surcharge in fat

## COMPARISON WITH THE HUMAN DIET:

A hamburger, pizza or hotdog can contain the same amount of protein, fat and energy as a plate of fish, olive oil, brown rice and green beans.

### Two different diets, two different effects on our organism and our health...

A comparison with human diet is presented next page.

## FLAKES:

> Increase digestibility thus glycaemic index of cereals.

TOO MUCH FLAKES =

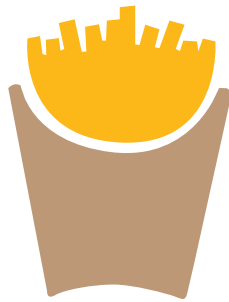
- Overweight
- Development of gastric ulcers
- Behavioural problems
- Muscular problems
- Metabolic problems

**We strongly advice against flakes in breeding!** (for broodmares in gestation and also young growing horses). They favour the development of osteoarticular disorders in young horses.

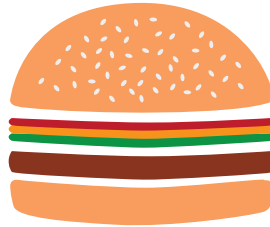
**We advise using flakes with moderation, only on specific situations.** (ex: horses in hard work which require high energy).

We choose to compare horse diet with Human diet.  
 “By-Product” Formula = “Fast Food” Meal  
 Adult Energy Formula = “Athlete” Meal

## “FAST FOOD” MEAL



100 g of chips



burger



Caramel ice cream

=

Calories: **880 Kcal**

Fats: **33 g**

Proteins : **24 g**



## “BY-PRODUCT” FORMULA

### COMPOSITION

Wheat, Wheat bran, Buckwheat hulls, Molasses, Dehydrated sugar beet pulp, Distillers spent grains, Lithotamnion, Palm oil, Sepiolite, Maize gluten meal, Dicalcium phosphate, Trace elements, Vitamins.

### ANALYTIC CONSTITUANTS

Humidity .....	12.5 %
Crude Protein .....	12 %
Crude fats and oils .....	4 %
Crude fibre .....	9.5 %
Crude Ash .....	9 %

Calcium .....	1 %
Phosphorus .....	0.5 %

### CARBOHYDRATES / KG

Starch .....	290 g
Starch and sugars .....	350 g

### ESSENTIEL FATTY ACIDS / KG

Acid Linolenic (Omega-3) .....	1 g
Acid Linoleic (Omega-6) .....	10 g

### AMINO ACIDS / KG

Lysine .....	3,650mg
Threonine .....	3,350 mg
Methionine .....	1,950 mg

A “Fast Food” Meal contains the same quantity of Fats (33 g) and Proteins (24 g) than a balanced meal.  
**However, how many athletes would choose the first meal?**

## “ATHLETE” MEAL



=

Calories: **605 Kcal**

Fats: **33 g**

Proteins : **24 g**



## ADULT ENERGY FORMULA

### COMPOSITION

Barley, Oats, Alfalfa 17 (horse), Maize without GMO\*, TRADI-LIN extruded linseed, French soya bean meal without GMO\*, Sepiolite, Lithothamnion, Dicalcium phosphate, Sodium Chloride, Trace elements and Vitamins.

\* Guaranteed to 99.1% - French produced cereals

### ANALYTIC CONSTITUANTS

Humidity .....	11.5 %
Crude Protein .....	<b>12 %</b>
Crude fats and oils .....	<b>4 %</b>
Crude fibre .....	<b>9.5 %</b>
Crude Ash .....	<b>9 %</b>

Calcium .....	1 %
Phosphorus .....	0.5 %

### CARBOHYDRATES / KG

Starch .....	340 g
Starch and sugars .....	360 g

### ESSENTIEL FATTY ACIDS / KG

Acid Linolenic (Omega-3) .....	10.5 g
Acid Linoleic (Omega-6) .....	10.5 g

### AMINO ACIDS / KG

Lysine .....	5,150 mg
Threonine .....	4,500 mg
Methionine .....	2,000 mg