

AABaits & Feeds

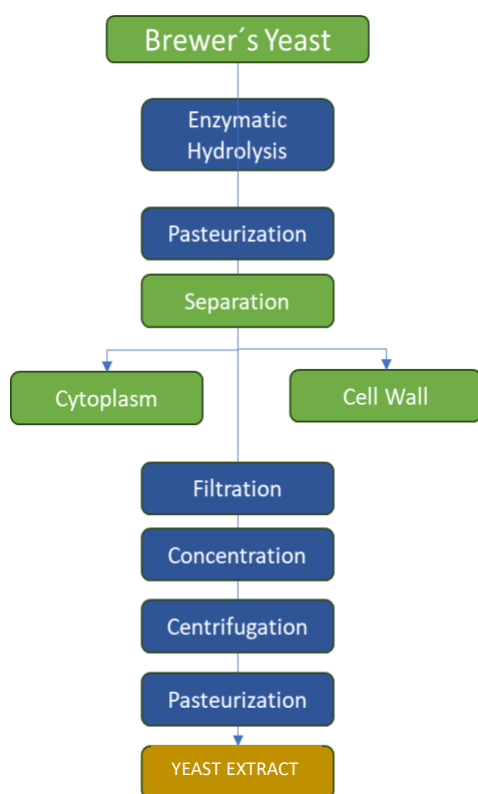
Data Sheet

Product: Premium Hydrolysed Yeast Liquid

Description: This is a pure soluble yeast extract, obtained by enzymatic hydrolysis, filtering and concentrating of brewer's yeast.

It contains a high level of small peptides and free amino acids. Hydrolysed Yeast Liquid is a completely liquid product with no precipitates. Insured in accordance with GMP+FSA.

A dark homogeneous liquid, with a taste that is typical to yeast extract. Density – 1.15Kg/l (48°C).



Nutritional Analysis:

Dry Matter	37-43%
Protein	25-27%
Protein (DM)	55-65%
Ashes	4.5%
Fat	<0.5%
Crude Fibre	<0.5%
pH	4.0-5.0

Minerals (mg/kg):

SODIUM	1550
CALCIUM	543
PHOSPHORUS	9840
ZINC	38,5
COPPER	2,4
MAGNESIUM	1300
POTASSIUM	13300

Vitamins (mg/kg):

B1 VITAMIN	100
B2 VITAMIN	11
B3 VITAMIN (NIACIN)	181
AC. PANTOTHENIC	21
B6 VITAMIN	4,5

AMINO ACID	TOTAL	FREE
AC. ASPARTIC	2,32	0,51
AC. GLUTAMIC	3,22	0,98
SERINE	1,14	0,50
HISTIDINE	0,64	0,25
GLYCINE	1,30	0,40
THREONINE	1,11	0,43
ALANINE	1,82	1,21
ARGININE	1,28	0,59
TYROSINE	0,88	0,52
VALINE	1,40	0,73
METHIONINE	0,30	0,27
PHENYLALANINE	1,02	0,69
ISOLEUCINE	1,14	0,63
LEUCINE	1,59	1,08
LYSINE	1,86	0,57
PROLINE	1,16	0,48
GABA	0,48	0,48
ORNITHINE	0,38	0,35
GLUTAMINE		0,17
ASPARAGINE		0,46
CYSTEINE		0,02
TOTAL	23,03	11,49

Nucleotides (mg/100g):

Cytidine -5-monophosphate	7.40
Uridine -5 – Monophosphate	10.10
Guanosine -5-monophosphate	6.6
Inosine-5-monophosphate	<0.15
Adenosine -5-monophosphate	46.2

Additives:

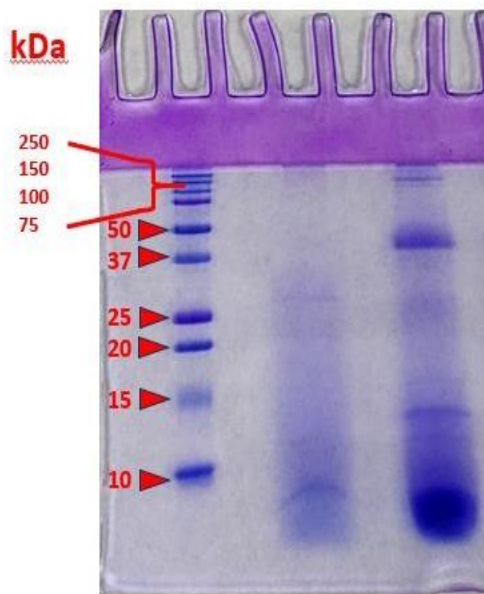
Formic acid (1K236)

Propionic Acid (1k280)

Acetic acid (1a260)

Molecular size of proteins:

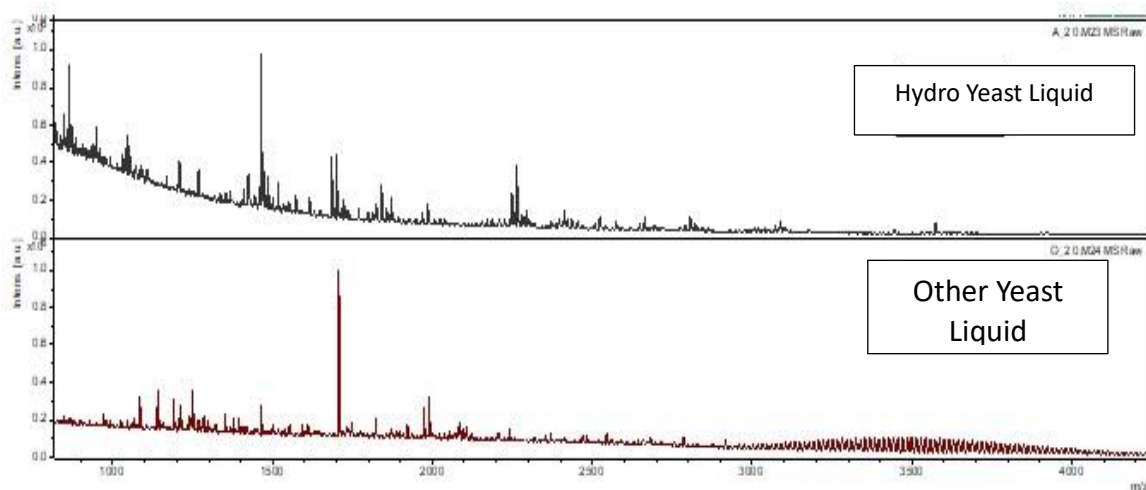
SDS-PAGE It is the acronym for *Sodium Dodecyl Sulfate Polyacrylamide Gel Electrophoresis* (polyacrylamide gel electrophoresis with sodium dodecyl sulfate). It is a widely used forensic science technique to separate proteins according to their electrophoretic mobility (depending on the length of the polypeptide chain, molecular mass, post-translational modifications and other factors).



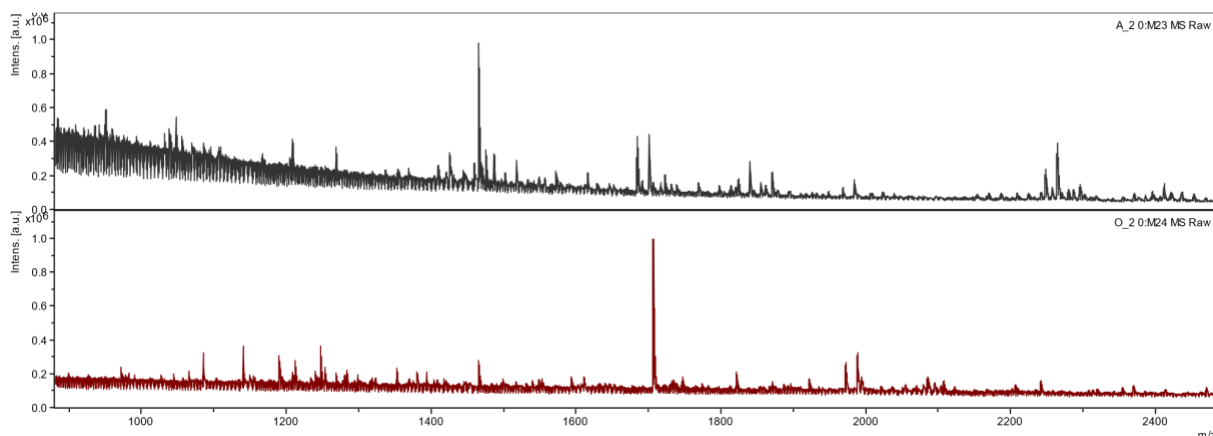
In this way, a fractionation is obtained that obeys: the difference in weight; the length of the chain (size); and the shape of the protein. It is the most widely used electrophoresis method to analyse proteins.

In the image we can see graphically how, in the case of the yeast before hydrolyzing, different groups of proteins with sizes 50kDa stand out, as well as a large accumulation between 15 and 5kDa.

In order to check the size of these peptides, the MALDI-TOF mass spectrometry technique is used.



As we can see in the image, in the case of Hydrolysed Yeast Liquid, the existing peptides are mainly grouped in the range from 0 to 2500 Daltons. The higher density of the peaks, as well as the height of the peaks, reflects the high concentration of peptides and free amino acids in Hydrolysed Yeast Liquid. The maximum molecular size of a peptide is 5,000 Daltons.



Direction for use: Intended for incorporation into animal/fish feed.

Packaging/Storage: Jerry cans or frosted bottles. Store in a cool dry place. Keep out of direct sunlight.

Allergy Advice: Handled in a warehouse that has nut products. Not for human consumption.

Shelf Life: 12 months from date of production, if kept in the stated storage conditions. Alternative storage may affect the shelf life.

Origin: EU.

This data sheet was created to assist users. All stated values are average values. The data listed is based on general use only. They are neither legally binding, nor do they form the basis for warranty or product liability.