

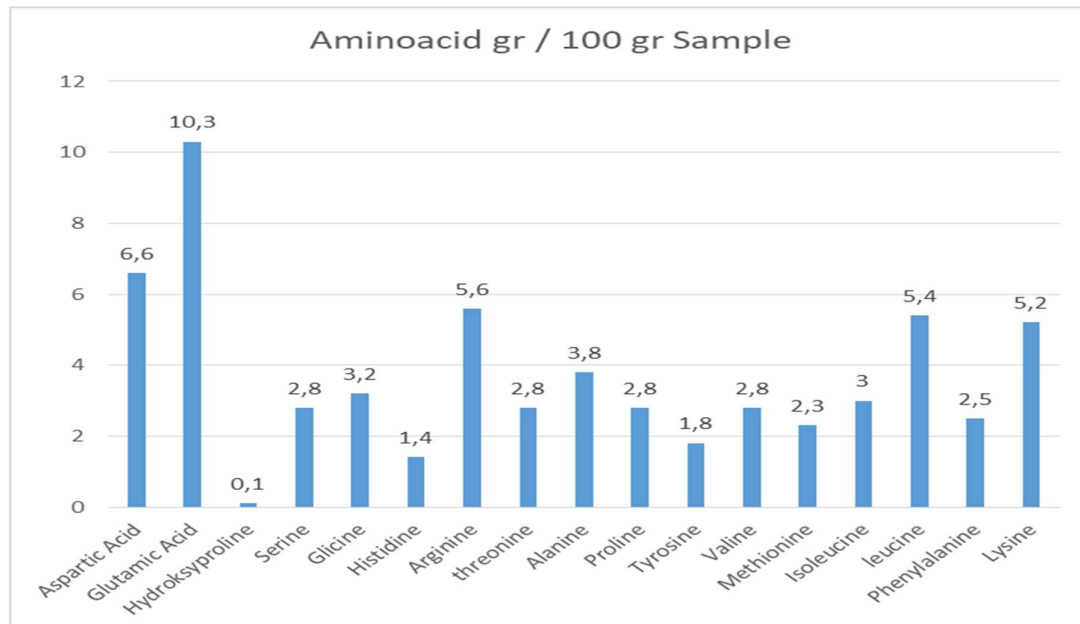


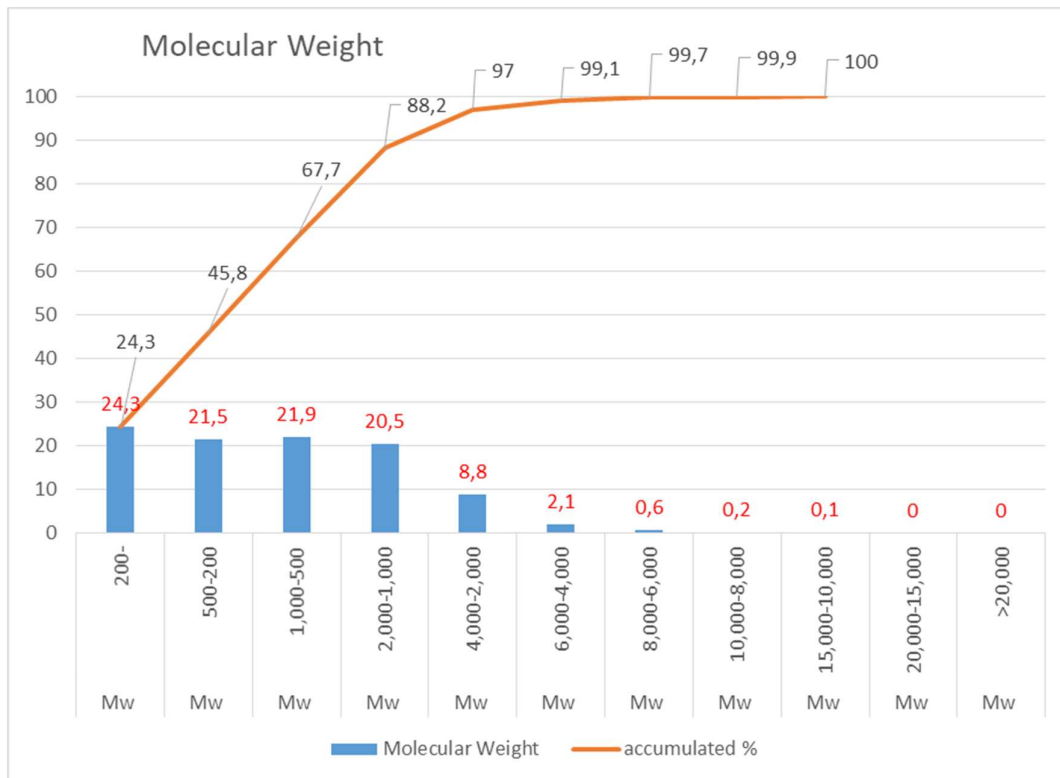
SPH 90 is a Squid protein hydrolysate obtained by gentle and controlled process, Fresh squid by-products are hydrolyzed using non GMO/ natural enzymes,

The raw material is daily processed to maintain an optimal freshness and hygienically conditions to ensure the best quality, all the hydrolyzed product is pasteurized.

#### SPH 90 Squid protein palatants

Appearance:	Liquid 21-23 brix
Odor :	Fish
Color :	Brown
Grasa:	≤ 5%
Particle size :	< 500 µm
Molecular weight :	99% <5000Da
Use :	Shrimps, Pigs, palatants Pets and Aquaculture
Pack :	IBC 1000L
Storage :	Room temp and out of direct sunlight
Expiration :	12 month after production date
PH :	2.9





SPH 90 . Due to its low molecular weight profile and characteristics uses:

- Petfood (palatant)
- In any Young animal feeds
- In milk replacers for animal
- Aquaculture (feed & attractant)
- Fertilizers

Packaging

- IBC 1000L

Storage / Shelf life

- Store in a dry and cool place
- Shelf life : 12 months



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Fyllingsdalen, 22.12.2016

Ref.: 2016/5752/6

### CERTIFICATE OF ANALYSIS

Received: 20.12.2016 Analyzed: 20.12.2016 - 22.12.2016  
Sample of: powder sample marked Hydrolyzed fish protein, Batch TPP10, Prod. date. 30.11.2016  
Ref:

#### Results

Sample number BioLab Samples labeled		2016-05752-01 Batch TPP10		
A01 Crude protein Kjeldahl (N*6,25)	%	83,9		
A20 Watersoluble crude protein	g/100g sample	69,0		
Mw-peptide > 20000	% of water sol. peptides	<0,1		
Mw-peptide 20000-15000	% of water sol. peptides	<0,1		
Mw-peptide 15000-10000	% of water sol. peptides	0,1		
Mw-peptide 10000-8000	% of water sol. peptides	0,2		
Mw-peptide 8000-6000	% of water sol. peptides	0,6		
Mw-peptide 6000-4000	% of water sol. peptides	2,1		
Mw-peptide 4000-2000	% of water sol. peptides	8,8		
Mw-peptide 2000-1000	% of water sol. peptides	20,5		
Mw-peptide 1000-500	% of water sol. peptides	21,9		
Mw-peptide 500-200	% of water sol. peptides	21,5		
Mw-peptide 200-	% of water sol. peptides	24,3		

  
Bente Asbjørnsen  
Chemical engineer



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Fyllingsdalen, 10.01.2017

Ref.: 2016/5752/1

### CERTIFICATE OF ANALYSIS

Received: 20.12.2016 Analyzed: 05.01.2017 - 10.01.2017  
Sample of: powder sample marked Hydrolyzed fish protein, Batch TPP10, Prod. date. 30.11.2016  
Ref:

#### Results

Sample number BioLab Samples labeled		2016-05752-01 Batch TPP10		
A42 Aspartic acid	g/100g sample	6,6		
A42 Glutamic acid	g/100g sample	10,3		
* A42 Hydroksyproline	g/100g sample	<0,10		
A42 Serine	g/100g sample	2,8		
A42 Glycine	g/100g sample	3,2		
A42 Histidine	g/100g sample	1,4		
A42 Arginine	g/100g sample	5,6		
A42 Threonine	g/100g sample	2,8		
A42 Alanine	g/100g sample	3,8		
A42 Proline	g/100g sample	2,8		
A42 Tyrosine	g/100g sample	1,8		
A42 Valine	g/100g sample	2,8		
A42 Methionine	g/100g sample	2,3		
A42 Isoleucine	g/100g sample	3,0		
A42 Leucine	g/100g sample	5,4		
A42 Phenylalanine	g/100g sample	2,5		
A42 Lysine	g/100g sample	5,2		

Analyses marked with \* is not accredited.

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Results relates only to tested items. Not to be reproduced partly without our approval.  
Please contact us if information of measurement uncertainty is needed.  
Method references - accredited methods: <http://nofima.no/forskningsanlegg/biolab>