

1

THE DIGEST

INFORMATION FROM THE SOURCE ON PEPTONES & HYDROLYSATES

New investments for peptones in 2021

Acid Hydrolysate of As one of the Casein will benefit from important investments in production capacity at the Maringa, Brazil peptone site.



Solabia Brazil to produce Acid Hydrolysate of Casein

Demand for Acid Hydrolysate of Casein has **soared** over the past several years as availability has plummeted in light of the manufacturing challenges this product presents : high pressure, high temperatures and corrosive highly hydrochloric acid.

few manufacturers of this reference worldwide, Solabia has identified the need and has decided to make a significant investment in a new production line dedicated to its production. This line should be operational towards the Fall of 2021.

The product will maintain the same specifications of the existing product made in France, including the Kosher certification. Halal certification will also be targeted.

Solabia Group helps in fighting COVID-19 in 2021 through the acquisition o f Laborclin Ltda (Curitiba, Brazil)

In 2020 the Solabia Group acquired the Brazilian culture media a n d reagents manufacturer Laborclin Ltda, which will incorporate Solabia peptones and Solabia culture media (Biokar Diagnostics) into their portfolio.

Laborclin is participating in fighting COVID-19 in Brazil by manufacturing the viral transport medium that enables the nasal swabs to be transported t o specialized laboratories for testing.



Solabia acquires Laborclin,

Summary :

- ♦ New investments for peptones in 2021. Solabia acquisition of Laborclin Ltda.
- Brazil production facility exploits methanization.
- ◆ Sustainable development at Solabia
- ◆ **GMO** in soy peptones : what you can expect

	THE DIGEST	AMENIO
Socabla	INFORMATION FROM THE BOURCE ON PEPTONES & HT	DROLTSATES
	Animal pepinnes an integral part of the Solahia parefulio	
	Connect hour on the are madent income previously second article of any one of a second	Based and
1	Industrials sample brief person allow the unboked deposits he sensed importants of these key or the use of plant Rosewer the dow not product to on 375 famil	 Asing pepton small by probain.
the states	schemen is the place of some fast around performs see down, investig we the maintain around here as faster our fire on here a constant result	· A close look at Cassin
0.672	(not) pyrow or one application ; indead the for our 1.5 cummans, matrice entertains, appends may be line. In These cases import the disposite indexet, permits come till organ.	Bolaina UR coordinates
200 200	Contraction of the second second	· University of Bollish
ALC: UNK	A State and and a state	animal payment
STATISTICS.	and content to be passed on	· blan oblang at the
100 C	second and in some humanical second and	3009 Aread Noting and Values and 11.14
Park.	Number State of a stat	
1000	failed, is many sear equation with its plant under produce (Depress	
1.1.1	phemonetesis, And Anishis has non able to papernet maning filiable	Same .
000	all are product probation of both horize musing axied payment	1 20
Sector Sector	development has been and postion protons at its new and into the flavor, initiand with place actual mandaturing the	
5 1 1	permit is only to \$400 Campo A hash	table des petition in son-
	Salahia to exhibit at the 2013 SIMB monting	ama, tobe pyras !
300	Initia is heppy to peption, to descree the Tata york show has	Comer Soldian
CONTRACTOR OF	annual for a station address of the highly report ranging from	Same US
100-000-0	medeate into hore samples and other Researcher & Cell fait I adaptivity where any fur or Calue, Residences	And the second second
and the second second	Microbiology and camer cannon and Microbiolog and Salard	Tes Tes, 57 (81)
	sho is preser in both a will to our read to combing for respon-	P. 13-46-76-878
	15.3 at this parts thell answer any questions you. You can will the Society Annual Muniting and might have or to update.	feet.
Statistics, Married	to have be first designed. Witcohislagy &	and the second design of the s
1000	Real and Marina, August Reservation of Marina State	Subbia Pascon N. on Telepo
1000	The data of an average of the second se	Well Including Page
41	utelle un table	P. COLUMN A
19	will be a gebber with the set of	feet plantaching
	NAME AND ADDRESS OF TAXABLE PARTY.	

Receive THE DIGEST: www.solabia.com or info.peptones@solabia.com

Solabia US :

28 West 44th Street Suite 910 New York, NY 10036

T:+1-212-847-2397 F:+1-646-786-4955

⊠ : info.peptones@solabia.com

Solabia France :

41, rue Delizy 93692 PANTIN, France

T:+33 1.48.10.19.40 F:+33 1.48.91.18.77

 \boxtimes : <u>informations@solabia.fr</u>

© 2021 Solabia S.A.S.



The methanization of waste residues in process effluents contributes t o sustainable development at the Brazil peptone plant.

One of the most visible and significant aspects of sustainable development at the Solabia Brazilian peptone plant is the methanization of waste residues in effluent water.

Specially built and sealed to prevent leeching, the methanization pond is the first of 5 water treatment reservoirs that ultimately recycle clean water back to the environment.



The resulting methane gas is trapped by a large covering constructed specifically by Solabia to prevent release of the gas into the atmosphere.

The trapped methane is transported back to the production facility where it is used to feed the boilers that produce the energy needed in manufacturing. This simple, efficient & careful system is a major contribution to the Carbon Zero objective of Solabia Brazil and represents an annual savings equivalent to the daily energy requirement for a city of 28000 people.

has a strong concentration anaerobic bacteria, which on the waste residues from peptone (among other) productions.





"... Solabia is progressively deploying a certification strategy according to **ISO 14001** for environmental concerns and **ISO 45001** for health and

security at various

production sites...."

IN ADDITION TO THE UN GLOBAL COMPACT, SOLABIA IS PROGRESSIVELY DEPLOYING ISO 14001 AND ISO 45001 CERTIFICATIONS.



FRANCE COORDINATES :

SOLABIA HEADQUARTERS IN PANTIN, FRANCE HAS MOVED DOWN THE STREET INTO LARGER OFFICES ; THE CORPORATE LEADERSHIP, M A R K E T I N G A N D COMMERCIAL TEAMS ARE LOCATED AT :

41, RUE DELIZY

93692 PANTIN CEDEX

FRANCE

TELEPHONE, FAX AND EMAIL COORDINATES REMAIN UNCHANGED.

© 2021 Solabia S.A.S.

All copyright and intellectual property rights to this newsletter are reserved.

Sustainable development at Solabia : commitments

Sustainable development is not just a twoword marketing concept but a tangible commitment of Solabia's long-term presence in the biotech, cosmetic, nutrition and diagnostics arenas. Based on 4 key principles : People, Product, Planet & Partner, Solabia has created a 5 year plan where the approach is showcased in an environmental context, safety in the workplace, the well-being of employees and the respect of fundamental human rights.



Since 2017, the Solabia Group has adhered to the **UN Global Compact** and their 10 principles and 17 objectives for sustainable development.

As part of this engagement Solabia publishes a COP (Communication on Progress) which describes the actions and progress made on these 17 themes.

In addition, Solabia is progressively deploying a certification strategy according to **ISO 14001** for environmental concerns and **ISO 45001** for health and security at various production sites.

Since commitment without evaluation is meaningless, Solabia's performance is evaluated annually according to 2 recognizable organizations :

Carbon Disclosure Project (CDP) : evaluation on environmental impact and especially actions on reducing greenhouse gas emissions

Ecovadis : evaluation of Solabia's Corporate Social Responsibility (CSR) policy globally by taking into account environmental, social and ethical programs as well as sustainable purchasing.

Solabia is building on their respectable scores with both organizations (for example, top 15% percentile in the category "Manufacturers of other chemical products n.e.c. industry" Ecovadis) by mandating energy diagnostics at all its production sites in order to identify areas of optimization for lowering energy dependance in a 3 to 5 year timeframe. The methanization project (page 1) represents itself an improvement of 87% of renewable energies used in Brazil.

GMO testing in soy peptones : what can you expect?

Following previous articles in *The Digest* that presented the GMO issues with soy peptones and other genetically modified substrates, the use of soy peptone remains extensive (even if attention is being oriented towards other plant proteins), therefore it is useful to review what can be expected when testing soy peptones for GMO.

While the use of Identity Preserved (IP) material provides security, it does not mean absence of GMO since the maximum threshold allowed by definition is 0,9% genetically modified material in soy flour with the IP label.

Recent analysis of selected soy peptones has revealed that **positive results are possible** even when IP soy flour is used. This is consistent with what we know to be the level of use in the United States for example, which has reached 94% in adoption of genetically modified soy.

Positive results are well under the 0,9% threshold and are generally situated at the < 0,1% level. In some cases a qualitative result can be given but the level of positivity may be under the limit of detection or quantification of the method.

The limit of detection for methods most commonly used by reference laboratories is **0,06%** of genetically modified DNA, given reference material & procedures established by AOCS (The American Oil Chemist's Society) or the European Commission's Joint Research Centre (JRC). GMO analysis protocols in Europe follow **NF ISO EN 21569 - 21570 - 21571 - 24276 standards.**

Genetically modified Soy protein potentially found in soy peptones

- Soy RoundUp Ready : e.g. jp35S/CTP derivative from Monsanto, resistant to its glyphosate-based herbicide, Roundup.
- ♦ MON 87701: another Monsanto soy derivative, authorized in the EU since 2012 under directive 2012/83/EC.
- ♦ *MON 89788* : another Monsanto soy derivative, authorized by directive 2008/933/EC in the EU.

Note : Results may differ between the raw material substrate (soy protein, soy flour...) and the peptone after hydrolysis. In some cases, positive results (either at or below the limit of quantification) may occur for the raw material but absence of signal (negative) in the finalized peptone, suggesting that **enzyme hydrolysis** may also play a role in detection.

Contacts : info.peptones@solabia.com - In the US : 1-212-847-2397 - elsewhere : +33 1 48 10 19 40 - www.solabia.com