biotech Solabia group

THE DIGEST

APRIL 2021

INFORMATION *FROM THE SOURCE* ON PEPTONES & HYDROLYSATES

New investments for peptones in 2021

Acid Hydrolysate of 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 highly corrosive hydrochloric acid.

As one of the 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 of **Laborclin Ltda** (Curitiba, Brazil)

In 2020 the Solabia Group acquired the Brazilian culture media and 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 to 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

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

Brazil production facility exploits methanization

The methanization of waste residues in process effluents contributes to 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.

This first pond has a strong concentration of **anaerobic bacteria**, which feed on the waste residues from peptone (among other) productions. 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.**

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

✉ : informations@solabia.fr

"… 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, MARKETING AND COMMERCIAL TEAMS ARE LOCATED AT :

41, RUE DELIZY
93692 PANTIN CEDEX
FRANCE

TELEPHONE, FAX AND EMAIL COORDINATES REMAIN UNCHANGED.

Sustainable development at Solabia : commitments

Sustainable development is not just a two-word 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.