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SUBJECT: Presentation of the new MEGAFLOA 9 Evolution

Dear customer,

Thanks to the continuous research and innovation of our probiotic manufacturer, we are pleased to inform you about an important update in our current mix of probiotics and prebiotics Megafloa 9 that, from now on, will be offered with the name of **Megafloa 9 Evolution**.

The justification for the change is to offer an evolved version of the product with significant improved properties respect to the previous version.

The changes in the formulation affect both, the organic and mineral matrix (ProbioAct®), as well as the composition of the probiotic strains, where *Lactobacillus plantarum* W1 has been added.

As an advance of the advantages in the optimization of the ProbioAct® matrix compared with the previous version:

- The matrix includes a hydrolyzed vegetable protein that shortens the time of bacteria re-hydration, meaning that bacteria are activated much more quickly once dissolved in water.

As result, the product can be consumed after 1 minute of its dissolution. In addition, the vegetable protein allows the probiotic bacteria to be more stable at room temperature, less vulnerable to the gastro-intestinal environment and highly active.

- The matrix contains a mixture of prebiotic fibre specific for the different strains that increases the growth of bacteria and serves as food during their journey through the gastro-intestinal tract.

The inclusion of the vegetable protein, as well as the improvement in the composition of the prebiotic mixture, has a positive impact on the production of lactic acid, which increases 8 times in the new version.

The production of lactic acid is not only a marker of the activity and quality of probiotics, but also the mechanism by which probiotics carry out their beneficial action in the gut.

On the other hand, a new strain has been incorporated, without modifying the previous 8 existing ones. This new strain, *Lactobacillus plantarum* W1, is one of the best lactic fermentative bacterial strains studied with more than 12 years of research.

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The reasons to incorporate this strain to those existing in Megaflora 9 are:

- **High gastro-intestinal survival.**

*L. plantarum W1 presents by itself a resistance to the intestinal tract superior to most of other bacteria. In addition, the gastro-intestinal survival study carried out on **Megaflora 9 Evolution** has shown that the presence of the ProbioAct® matrix increases the survival at the level of the rest of the strains present in the mixture.*

- **Detoxification properties.**

L. plantarum W1 contains enzymes that degrade nitroaromatic compounds present in many processed foods. These nitroaromatic compounds have demonstrated cytotoxic and mutagenic capacities.

- **Maintenance of barrier effect.**

L. plantarum W1 has the potential to increase intestinal integrity by activating toll receptors responsible for the maintenance of intestinal epithelium integrity.

- **Interaction with the immune system.**

L. plantarum W1 induces the expression of anti-inflammatory cytokines such as IL-10 which is an inducer of T-lymphocytes Helper, that regulate immunity.

These changes do not suppose any change in the current properties already present in Megaflora 9:

- High stability at room temperature.
- High degree of gastro-intestinal survival.
- Barrier effect at the level of the intestinal mucosa.

On the contrary, they do suppose an improvement of the immune response and in the production of lactic acid of **Megaflora 9 Evolution**.

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At Solchem, we are aware that these changes will drive to changes in the labeling and notification of products due to the presence of vegetable protein and the new strain but, we also believe that they are fully justified by the increase in the efficacy of the product.

You will soon receive a complete dossier on **Megaflora 9 Evolution**. At them moment, we take the opportunity to attach the **Megaflora 9 Evolution** data sheet.

With our best regards,

Barcelona, March 2018

A handwritten signature in blue ink, appearing to read "Joan", enclosed within a circular scribble.

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