



SINTAL GROUP





PHYLOSOPHY

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Innovation and technology are the driving force in the evolution in the production of Nutraceutical industry. In the last 15 years, our company has addressed the evolution of the food supplement market from regulatory and industrial point of view. Our philosophy relies on technological and formulation development, and the assistance and flexibility we can offer to our clients. Quality in any aspect of the service is the basis of the brilliant success achieved in recent years.

MISSION

- Our mission is to bring success through innovation;
- To provide each of our clients with the most effective service and to contribute to health and well-being by providing high quality products.
- By building and maintaining strong business relationships with our partners and by meeting their needs, Sintal Group will identify opportunities to differentiate the company from our competitors.

OUR HISTORY

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MD'E was the first company of Sintal Group, founded in 2001, in Castelnuovo Vomano, Central Italy and in the last 13 years it has been engaged with contract manufacturing of dietary supplements. During this period, we spent time in developing production technologies in order to satisfy the market needs expressed by numerous customers.

Our company has dedicated particular attention in obtaining more and more innovative products from a purely technological point of view and following the formulation of all legislative changes made by the Italian and European Governments.

Over the time, and due to the changes in the growing market demand, we found that is necessary to expand production sites, creating four other companies: PNK, Sintal Dietetics, Sintal Liquid and Gumd'e. All together these companies represent a holding, which gives us the possibility to divide the types of production, both qualitative and quantitative, in terms of acquisition of materials and raw materials, allowing our customers to purchase significant amounts depending on the desired product.



EXPERIENCE & EXCELLENCE

Born from the experience in the field of probiotics, MD'E today ranks among the most dynamic companies in the manufacturing of supplements for the industry.

PARTNERSHIP

For us, every partner is a great partner. Our company is always seeking for new partnership opportunities. We produce both small and large batches in short times and with the best quality.

INVESTMENTS

Dietary supplements are constantly expanding and evolving. The sector involves continuous investment and implementation of new raw materials. Sintal Group adopted new requirements and constantly invests in new production machinery, new dosage forms, new systems of packaging, and in research and development of new ingredients and functional products.



RESEARCH AND DEVELOPMENT

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In order to respond to growing changes in the nutraceutical industry and the market offering more innovative products, it was necessary for us to implement the concept of "applied research" - the key that translates in terms of know-how and technological progress. The company management has always believed in the importance of the research in order to obtain and commercialize innovation.

For these reasons, in recent years, we have established collaborations with leading national and international universities that have been able to support the work of Sintal Group and its scientific credibility. Those collaborations have been established and can be seen as a branch of the academy in the academic world and vice-versa.

According to the recent law changes, we have established several research areas with a great importance, ranging from microbiology, analytical and pharmaceutical chemistry to clinical pharmacology. In order to support the production sector, research and development laboratories are presented, which

support and enrich our company in the key sectors of food integration. In these laboratories formulation tests of new products, time stability testing of finished products (if and when necessary) and research work are carried out and compensated by the University when required.



MICROBIOLOGY AND BIO- FERMENT

MICROBIOLOGY AND BIO-FERMENTATION LABS

These labs were created 5 years ago in order to support the probiotics market sector which accounts for 30% of our market sales. The qualified personnel is occupied on daily basis with:

- Isolation and characterization of new bacteria with possible health benefits: several lactic acid bacteria for a private collection of the company were selected;
- Isolation and characterization of metabolites with specific therapeutic applications;
- Specialized control of bacterial taxonomy; moreover the laboratory is involved in the evolution of the taxonomy of all bacteria used in food supplements;
- Optimization of fermentation processes to improve yields in biomass and metabolites: with the perspective of producing ourselves such strains (new lines of productions) the lab is optimizing the fermentation processes in order to increase biomass and biomolecules yields at a lower costs;
- Specialized support to customers' requests.

THE MAIN AREAS OF INTERESTS ARE:

- Oral and skin health care
- Weight management
- Gastrointestinal homeostasis
- Urinary tract well-being
- Others based on the specific request

The research and development group of the Microbiology and fermentation chemistry lab relies on partnerships with Local Authorities and Universities in order to enhance the value of products projects.

A portion of microbiological quality control of contaminants are performed on raw materials and finished products and value of probiotics charges are performed daily in a dedicated area.



ANALYTICAL CHEMISTRY AND CHEMISTRY EXTRACTION LABS

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These labs represent a support for the ordinary work in terms of development and validation of new analytical method for vegetable raw materials, but not only. Other interesting raw materials are: oils, sweeteners, vitamins, FAME and nutraceuticals in general.

The main subject of research is the extractions of the most important pharmacological marker from vegetable raw materials with Naviglio extractor instrument. The aims of these extractions are to obtain dry extracts, enriched in a specific pharmacological marker and to reach the quality standards requested by our company.

The department of Chemistry extraction lab uses control equipment with high technological content in order to verify the content of concentrates and finished products in powder form and to define the industrial scale-up.

THE STAFF OF CHEMISTRY EXTRACTION LAB IS DEDICATED TO:

- Developing methods and quarrying
- Optimizing the methods of analysis
- Isolating active fractions from plant components
- Focusing and stabilizing the active fraction

THE STUDY AREAS OF INTEREST ARE THE EXTRACTION OF PLANTS WITH:

- Neuro-active functions
- Functional anti-inflammatory activities
- Rebalancing in childhood obesity activities
- Balance of cardio-vascular system activities

Analytical-chemistry controls are performed too on raw materials and finished products by HPLC DAD-FLD, GC-MS, HPLC-MS-MS, ICP-MS.

FINISHED PRODUCTS

Up to date more than 1000 finished products has been made on behalf of nearly 120 companies which sell these products all over the world. Our strength is to customize each product according to the needs of each customer.

DOSAGE FORMS

- Powders and granules in sachets (single or double)
- Capsules
- Chewable tablets
- Effervescent tablets
- Aesthetic or functional coated capsules and tablets
- Oil spays
- Gums (chewing & jelly)

PACKAGING

- Blisters
- Flacons
- Bottles
- Boxes

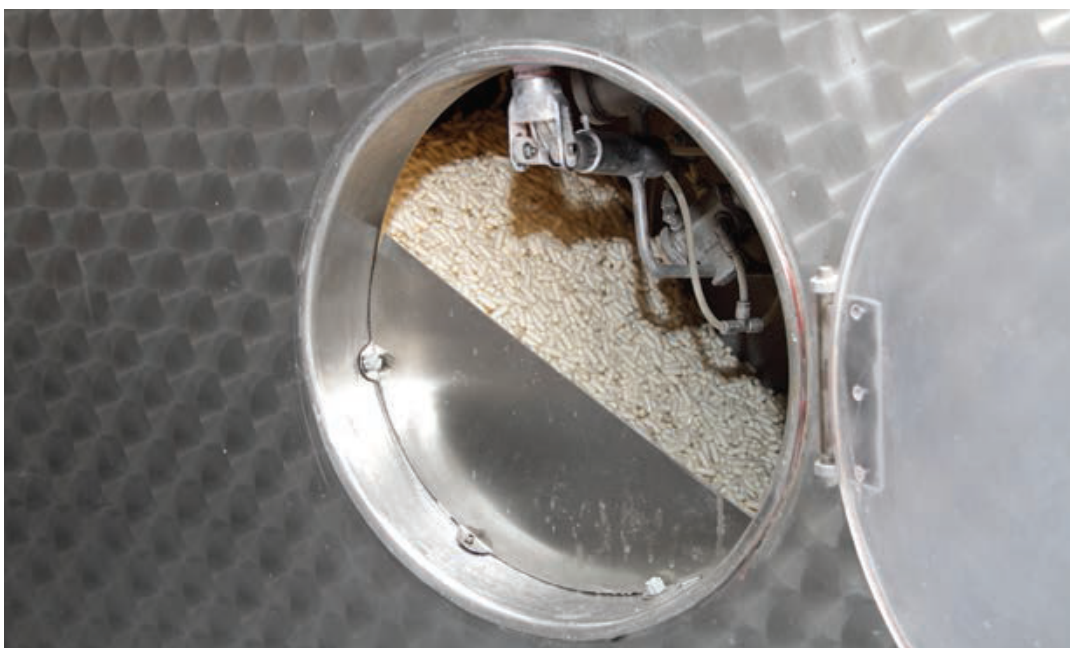


PRODUCTION FACILITY

PRODUCTION PLANT

Today all the Sintal Group capability is situated on 6.200 square meters of production sites divided in three buildings:

- PNK Farmaceutici Srl (400 sm/ aprox)
- MD'E Srl, Sintal Liquid and GUMD'E (4.000 sm/aprox)
- Sintal Dietetics Srl (1.800 sm/ aprox).



RAW MATERIALS



RAW MATERIALS USED FOR PRODUCTION

All raw materials acquired and controlled before production from microbiological and analytical standard point are properly stored in the warehouse or refrigerator, depending on the specifications listed on the certificate accompanying the goods and according to the principle of First in-First off.

THE MAIN TYPES OF RAW MATERIALS BEING USED ARE:

- Titrated dry extracts of vegetable origin
- Fluid extracts of vegetable origin
- Vitamins
- Minerals;
- Amino acids
- Probiotcs
- Colostrum, lactoferrin
- Various exceptinets (fillersm, scrow, sweeteners, coloring agents, flavors)
- Oils

PERFORMANCE



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