

MASQUELIER'S®



Traceability has always been in MASQUELIER'S® DNA.

MASQUELIER'S® Original OPCs offer a traceable source of health benefits that consumers are looking for. Traceability is MASQUELIER'S® foundation, which has been built upon over decades to ensure your customers keep coming back.

MASQUELIER's® utilizes DNA barcoding and Complex Phytonutrients Authentication for complete traceability.

Consumer confidence in the integrity of supplements has been gradually eroded. We will only rebuild trust by applying the highest levels of traceability, allied to processes that help establish a product's authenticity. That is exactly where I.N.C.'s commitment to partnership lies. As such, you can be sure that every batch of the MASQUELIER's® ingredients we prepare and supply has been rigorously and expertly monitored and authenticated.

We go to these lengths because we share your belief that consumers have the right to trace the origin of the benefits that supplements deliver. Only then will they be empowered to make informed decisions about initial and repeat purchases. Ultimately, it's the only way to ensure that your customers experience the health benefits claimed by supplements – and the only way to guarantee repeat purchases and regular profits.

Together, we will only be able to engender consumer trust by offering them traceability right back to the ingredient that delivers the health benefit they seek. No supplier is more committed to this process than I.N.C., whose MASQUELIER's® Original OPCs undergo a long and rigorous process of traceability and authentication, including DNA barcoding (see the detailed illustration overleaf).

Traceability is in our DNA.

Traceability and a rigorous approach to product quality has always been at the core of I.N.C.'s MASQUELIER's® brand and products. Indeed, it runs through every step of our extraction and production process

And crucially, in 2015 I.N.C. incorporated DNA barcoding in the selection of the seeds used to make MASQUELIER's® original OPCs.



MASQUELIER's® Complex Phytonutrients Authentication: the ultimate authentication tool.

Apart from assuring the DNA of our source material, we apply further testing in the form of Complex Phytonutrient Authentication (CPA). CPA involves advanced scanning in order to detect, isolate, identify and map every element of our multi-component, plant-derived phytonutrients that are so fundamental to health.

That's why the CPA method is also used by the food industry to distinguish originals from adulterated whisky, pure from degassed olive oils, and whether arabica coffee is from Kenya, Java or Brazil. The CPA method is also widely used to identify the quality and composition of botanical medicines.

This means that we – and you – know whether the molecular components of the OPCs extract produced match the proven safe, bioavailable and effective components of the original extract developed by Jack Masquelier, and therefore qualify as MASQUELIER's® original OPCs.

From vine to supplement – MASQUELIER'S® unique and rigorous traceability and authentication process.

The diagram to the right is a simplified version of the way that you can be sure of complete traceability with MASQUELIER'S® Original OPCs. A much more detailed dossier, outlining every step of the process, is available to our MASQUELIER'S® branded ingredient partners.

VINEYARD

MASQUELIER'S® Original OPCs is derived from the seeds of *Vitis vinifera* L. grapes grown in very specific vineyards in France.

CULTIVATION AND VINIFICATION IN ACCORDANCE WITH EU REGULATIONS

The *Vitis vinifera* L. seeds used to create MASQUELIER'S® Original OPCs are obtained from specific *Vitis vinifera* L. cultivars grown by specially selected growers in specific regions, in accordance with EU regulations.

WINERY

The grapes are processed immediately after arriving at the winery after the annual harvest.

SKIN, SEEDS AND PULP

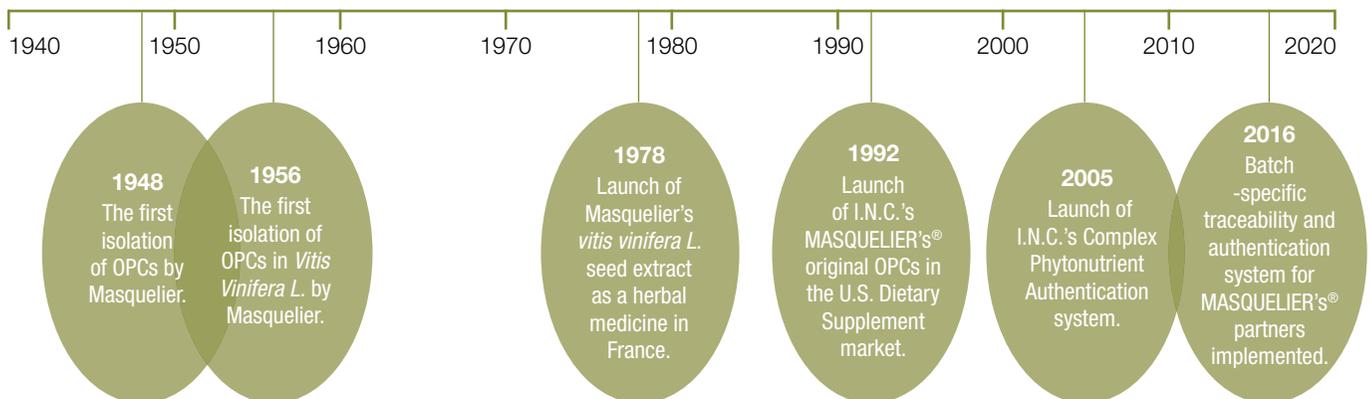
The pulp and grape seeds are separated from the parts of the grapes that are used for wine making.

DOCUMENTATION (SELECTED) GROWING AREAS AND VINEYARDS

The pulp transported to the pulp processing facility is accompanied by batch documentation describing the named and specific geographical location of the vineyards and wineries.



The heritage of MASQUELIER'S® original OPCs.



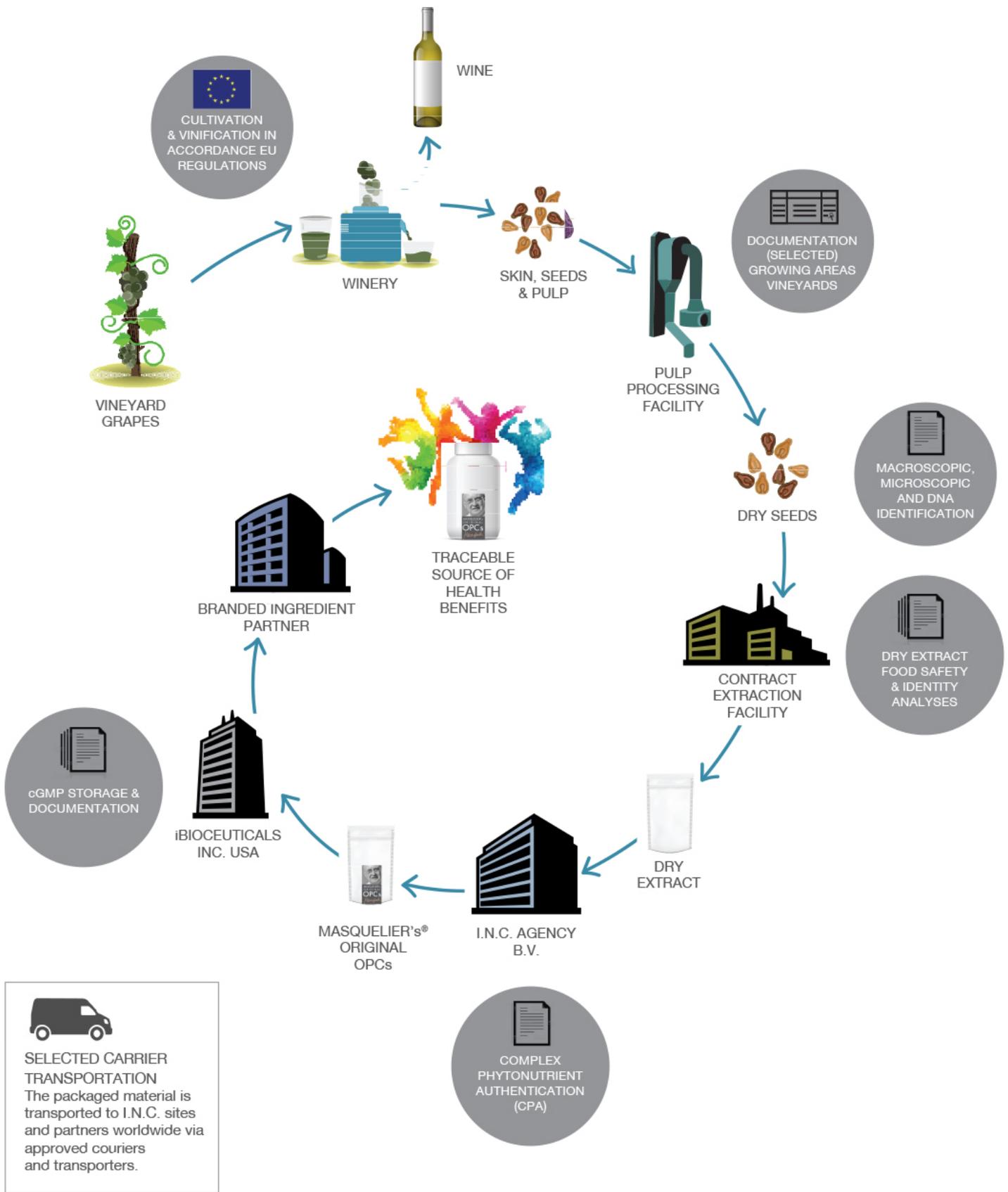


FIGURE 1: From source material to the customer.

PULP PROCESSING FACILITY

The seeds are immediately separated from the pulp via sieving then washed, flash-dried and prepared for storage. The pulp processing facility is audited regularly under the ISO:22000 Food Safety Management System.

DRY SEEDS – MACROSCOPIC AND MICROSCOPIC IDENTIFICATION

Before the specially selected seeds are accepted for extraction, several identification steps take place. First an independent botanical laboratory identifies batch samples of the seeds, using macroscopic and microscopic identification methods.

DNA IDENTIFICATION

Subsequently batch samples are sent to an independent biotechnological DNA laboratory. Here, extracts are amplified and sequenced making it possible to identify the source of the plant material using DNA barcoding and identification.

CONTRACT EXTRACTION FACILITY

Once the identity of the selected seeds has been confirmed as *Vitis vinifera L.*, batch samples are stored for future reference and the batch is released for extraction. The seeds can then be used to produce MASQUELIER'S® Original OPCs.

DRY EXTRACT FOOD SAFETY AND ID ANALYSIS

Following extraction several in-house identification-, as well as relevant food safety analyses are performed on the dry extract, before being released for packaging and shipment to I.N.C..

I.N.C. – AUTHENTICATION (CPA)

A sample of the final dry extract is taken for authentication via Nuclear Magnetic Resonance (NMR) and Principal Component Analysis (PCA) before being released as MASQUELIER'S® Original OPCs. This testing was first initiated by I.N.C. in 2005 under the name Complex Phytonutrient Authentication (CPA).

I.BIOCEUTICALS I.N.C. USA (IBC)

IBC is an NSF registered cGMP distribution Facility that offers the MASQUELIER'S® branded ingredients exclusively to manufacturers in the North American marketplace, giving access to the authentic product & research.

SELECTED CARRIER TRANSPORTATION

The packaged material is transported to I.N.C. sites and partners worldwide via approved couriers and transporters.

BRANDED INGREDIENT PARTNER

MASQUELIER'S® is a true partner for those supplement brands that wish to successfully face the uncertainty growing in our industry by using genuine and original extracts that deliver scientifically proven health benefits to your customers.

There are grape seeds or there are grape seeds extracts, and then there is MASQUELIER'S®.

This focus on detail and authenticity is the reason why I.N.C. has never defined MASQUELIER'S® Original OPCs by its botanical origin (seeds of grapes). The fact is that while all grape seeds contain OPCs, not all grape seed extracts contain OPCs and the exact molecular components that have the scientifically proven benefits of MASQUELIER'S® Original OPCs.



MASQUELIER'S®

Jack Masquelier and MASQUELIER'S®.

MASQUELIER'S® was born of a revolutionary idea when, over 60 years ago, the French plant expert Jack Masquelier found a way to isolate a uniquely powerful plant extract. Moreover, he was in no doubt that this extract had vitamin-like properties that have a remarkably positive effect on our health.

Only MASQUELIER'S®
ingredients are the same
as Jack Masquelier's
originals.



Jack Masquelier developed the essential insight that it was the tiny capillaries that benefited most from the extract. A vital precondition of good health is good blood circulation. Masquelier's discovery helps you to maintain your blood circulation and microvascular system. And that's important because as you age, your capillaries inevitably become less effective.

He dedicated the rest of his life to expanding his knowledge, refining his processes and developing new applications. Since then a vast body of independent, ingredient-specific clinical and scientific data has emerged to support the validity and efficacy of MASQUELIER'S® Original OPCs.

We continue to take his life's work forward by offering powerful supplements that provide optimal support for capillaries and blood circulation. And we continue to invest in research that improves the science behind our products and the health of consumers.

Above all, we follow the standards established and practiced by Jack Masquelier himself. Each batch of MASQUELIER'S® Original OPCs is authenticated via the highest levels of traceability and CPA, and we arrive at our results in the same way.

In short we don't just say it, we prove it. And only MASQUELIER'S® ingredients are the same as Jack Masquelier's originals.



This information is provided by:

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MASQUELIER'S® is a registered trademark of International Nutrition Company B.V.,
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www.masqueliers.com



Authenticated through advanced batch to batch analytical control (CPA), our partners can rely on MASQUELIER'S® for quality and optimum, physiological consistency and proven results. Only products carrying the MASQUELIER'S® Seal of Authenticity (left) are made to the exact same composition as established by Professor Masquelier himself.