



**KUGEL**<sup>®</sup>  
PLANT EXTRACTS 

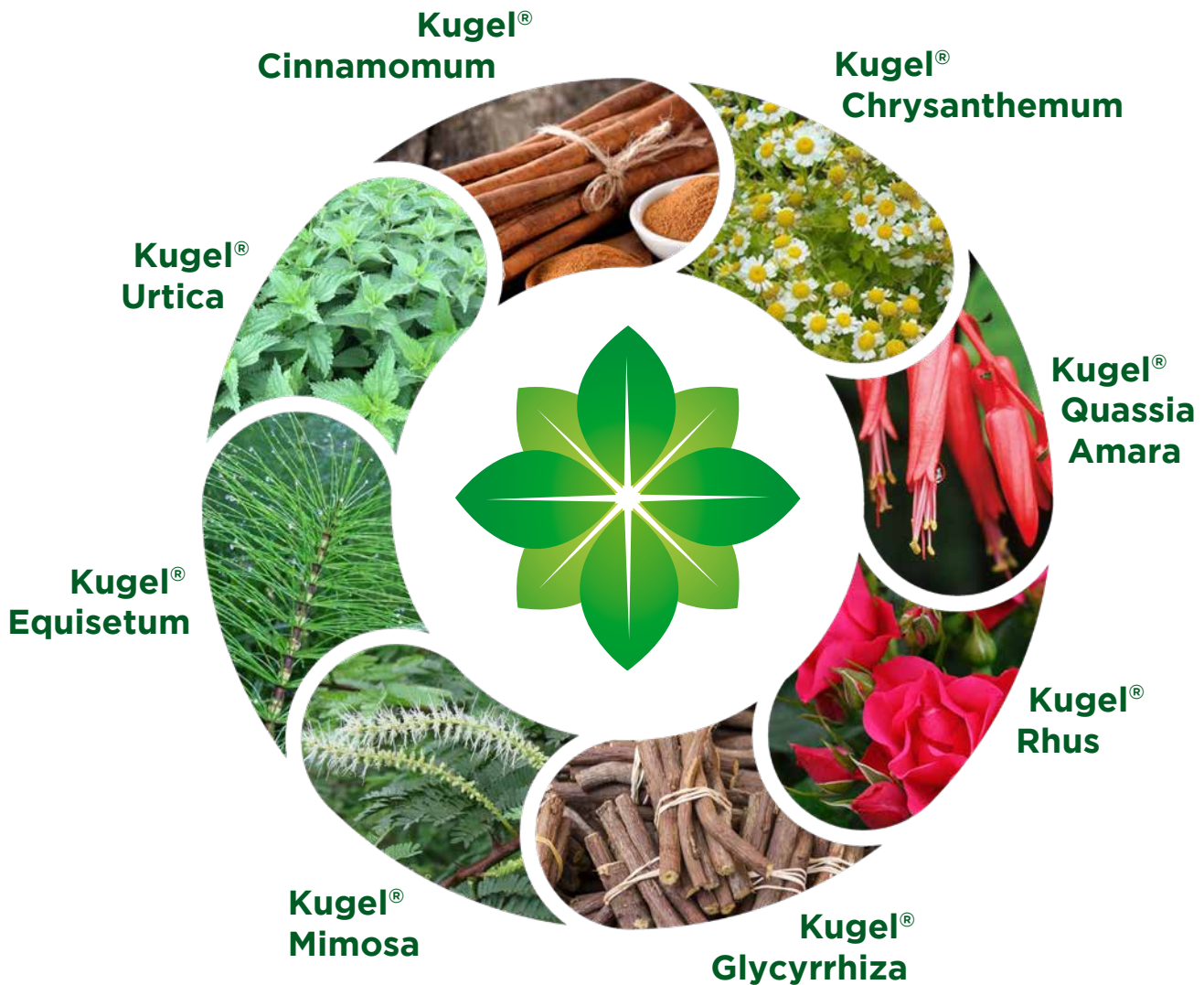
**ControlloNaturale**<sup>®</sup>



**SPAA**<sup>®</sup> S.r.l.  
*Science in Natural Growth*

# **KUGEL**<sup>®</sup> PLANT EXTRACTS

The KUGEL<sup>®</sup> products are a line of plant extracts which are obtained by means of an “environmentally friendly” process, thanks to which the functionality of the bioactive molecules is preserved and the extraction yield is maximized.



**Certified Quality, Environmental, Safety Management System:  
ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018**



Plant extracts represent a line of products of totally natural origin.

The constituents of plants or parts of plants (roots, leaves, barks) are extracted through 'environmentally friendly' processes. The active molecules, specific for each type of extract, are characterised by specific functions and, on one hand they have a fertilising action on plant growth and, on the other, they act as synergists against bacteria, fungi and insects.

KUGEL® line was created from the company's will to produce formulas "from plants for the plant", by developing specific extraction processes for each type of extract to maximise the extraction yield of the individual active molecules. The Kugel line also includes plant multi-extracts, carefully formulated to support plants in times of stress.

Regulatory Reference

Bioinsecticide	Enhancing mixture for plants	Bioinsecticide	Biofungicide Bactericide	Biofungicide Biostimulant Bactericide	Biofungicide Biostimulant
<b>Kugel® Cinnamomum</b>	<b>Kugel® Chrysanthemum</b>	<b>Kugel® Quassia Amara</b>	<b>Kugel® Rhus</b>	<b>Kugel® Glycyrrhiza</b>	<b>Kugel® Mimosa</b>
<b>Legislative Decree of 6 September 2005 number 206 - Consumer Code</b>					

Biofungicide	Biofungicide Bioinsecticide
<b>Kugel® Equisetum</b>	<b>Kugel® Urtica</b>
<b>Reg. (CE) 1107/2009 - Phytosanitary products BASIC SUBSTANCES</b>	



## Our products KUGEL®

Our formulations are obtained thanks to our know-how of extraction, processing and formulation of plant extracts which optimize agronomic results of sustainable technical strategies supporting plants subjected to stress.

### Kugel® Fly

Our formulation KUGEL® FLY is derived from the combination of biomass extracts of Europe, South America and Asia and micro nutrients with a stimulating and anti-stress action. It can be used on all kind of crops, both in integrated and organic productions.

### Kugel® Dry

Our formulation KUGEL® DRY obtained from the combination of biomass extracts of Europe and South America has a double action of the plant's. Its application has a stimulating activity of the plant's cellular metabolism and a significant strengthening action. This allows the plant to increase its resistance to stress deriving from the damage caused by fungi and different species of bacteria.

# Technology ST.DIF.V.B.<sup>®</sup>

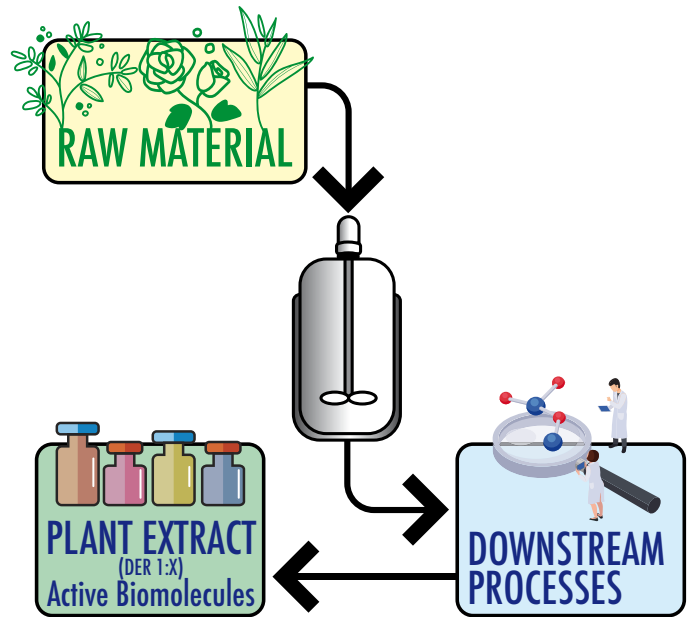
## Steam Diffusion from Vegetal Biomass

The SPAA<sup>®</sup> line of plant extracts is produced using the “STEAM DIFFUSION” technology. This method makes it possible to use the properties of high pressure steam to extract the active ingredients present in plants, maximizing yield and preserving their functionality. The technologies used make these processes GREEN. Furthermore, particular attention is paid to the choice of raw materials and to the process parameters in order to obtain the maximum yield with the lowest possible residue.

Each extract is thus characterized by the DER (Drug Extract Ratio), that is the ratio between the quantity of woody biomass used and the quantity of extract obtained.

The active molecules (flavonoids, alkaloids, phenolic compounds, saponins) specific for each type of extract, are characterized by specific functions and act on one hand on the processes of stimulation of plant growth and on the other as synergists to prevent the proliferation of bacteria, fungi and insects.

Their complex mode of action prevents the development of target parasites or pathogens.



 **SPAA<sup>®</sup>** s.r.l.  
*Science in Natural Growth*

Via delle Industrie 11-13 - Loc. Piano di Sacco  
65013 Città Sant'Angelo (PE)  
Tel./Fax. +39.085960209 - +39 3349978800  
[www.spaa.it](http://www.spaa.it) - [info@spaa.it](mailto:info@spaa.it)