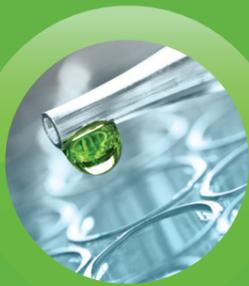




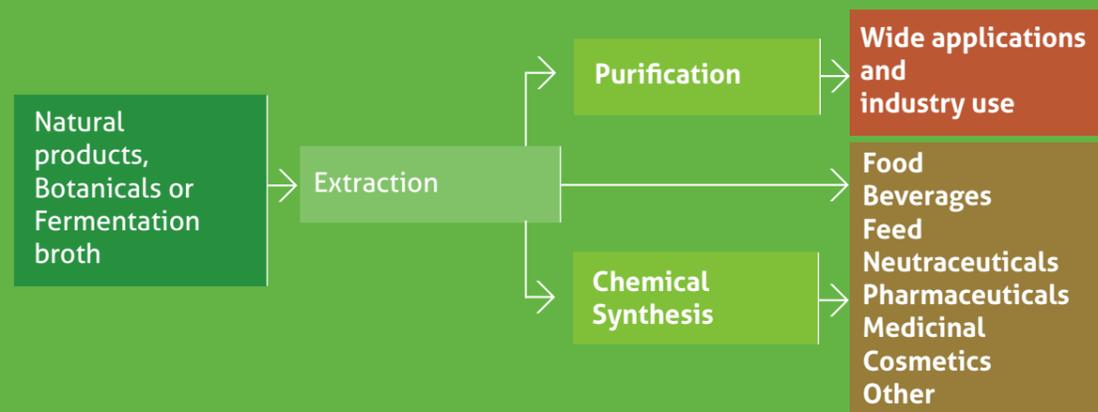
RAW MATERIAL



EXTRACT



TARGET



Ajinomoto OmniChem,
the specialist in extraction of botanicals

Extraction & purification of natural products
Continuous process
Belgian based manufacturer
Quality systems: FSSC22000 and c-GMP RSM Q7

*Natural Specialities is a business line of Ajinomoto OmniChem,
the Belgian affiliate of the Japanese multinational Ajinomoto.
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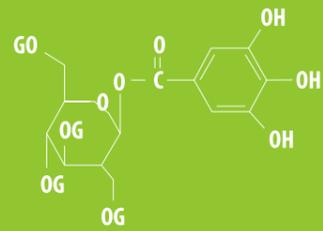
TANNIC ACID

A natural ingredient for animal nutrition



Tannic acid = specific polyphenols called hydrolysable gallotannins

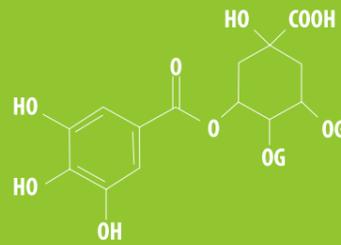
Depending on the raw material and purification steps, grades for different applications can be obtained.



Glucose based tannic acid

Botanical source:
Aleppo & Chinese gallnuts

G = Galloyl, Digalloyl, Trigalloyl



Quinic acid based tannic acid

Botanical source:
Tara pods

G = Galloyl, Digalloyl, Trigalloyl

Properties of tannic acid

A multifunctional ingredient for animal nutrition

ANTI-OXIDANT

PROTEIN BINDING

TASTE & FLAVOUR
Mouthfeel

METAL COMPLEXATION

Other OmniChem tannins: Grape seed extracts

- OmniVin product range
- Anti-oxidant source and flavouring ingredient in animal nutrition

Regulatory considerations

- Tannic acid is an allowed flavouring additive for all animal species in the EU
- Tannic acid is considered GRAS for its intended use in animal feed in the US
- OmniVin grape seed extract is an allowed sensory feed additive for all animal species except dogs in the EU

Applications



Poultry

- Alternative to the use of antibiotics as growth promotor.
- Dosage levels should be kept low in order to evade anti-nutritional effects (0,1 - 0,2% on feed dry matter)



Pigs

- Tannic acid can be used to combat ETEC (Enterotoxigenic E. coli) induced diarrhoea in piglets
- More natural alternative for antibiotic use in the sector



Pet food

- As a powerful natural anti-oxidant, tannic acid can be used as an alternative for synthetics such as BHA, BHT, TBHQ or ethoxyquine
- As a functional ingredient, tannins can improve the anti-oxidant status of your pet

