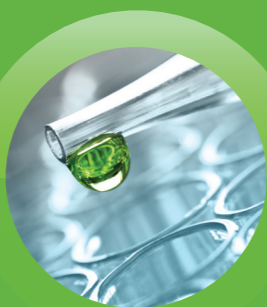




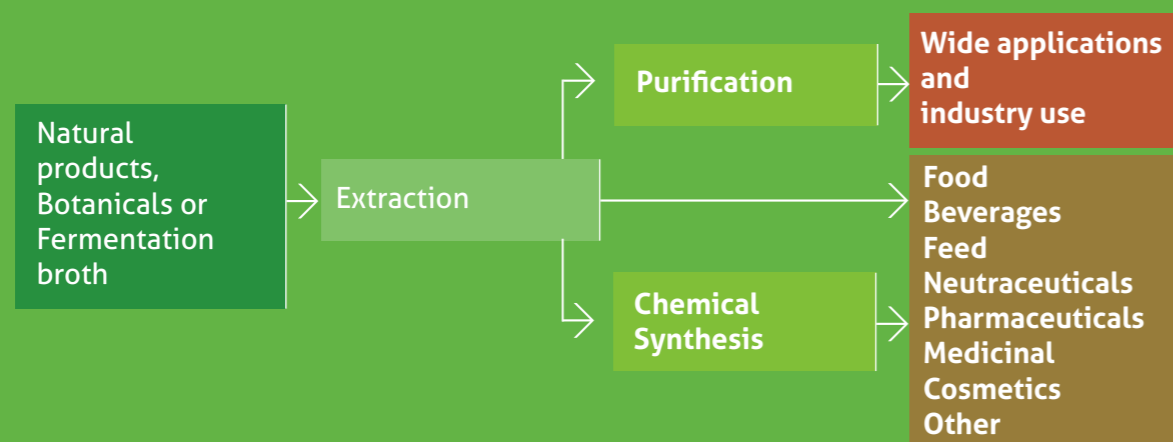
RAW MATERIAL



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,  
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# TANNIC ACID

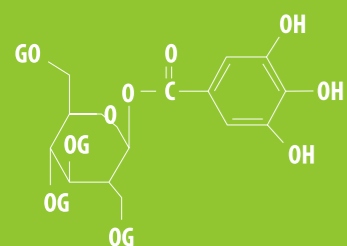
A natural ingredient for animal nutrition



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## Tannic acid = specific polyphenols called hydrolysable gallotannins

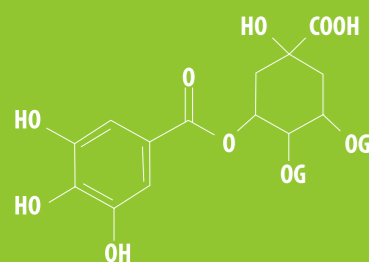
Depending on the raw material  
and purification steps,  
grades for different  
applications can be obtained.



### 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**

## 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 funtional ingredient, tannins can improve the anti-oxidant status of your pet

## 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

