

# Aspidyn T

100% natural liquid feed supplement based on 5 plant extracts for administration to poultry

Pharmsure International has teamed up with Biagral to bring a range of phototherapeutic poultry products to international markets. Founded in 1998 in Belgium, Biagral is a company that specialises in formulating products based on naturally occurring plants that have known phytotherapeutic benefits. They have implemented research programmes, sponsored by the Belgium authorities, to look at the activity of botanicals for veterinary medicine and animal production. The goal of Biagral is to develop products which support and reinforce the natural resistance of animals against diseases or alleviate the symptoms of some conditions. The herbs used in their products are only used after careful selection with the aim of enhancing the health and the productivity of animals and are all authorised for use in food producing species in the EU.



Acetylsalicylic acid (ASA) (and plant extracts containing ASA) has been used for years in poultry medicine because of its well-known anti-inflammatory, antipyretic and analgesic properties. In practice it has been widely used for treating heat stress, ascites, locomotor disorders, stimulation of egg production, improving eggshell thickness and for respiratory and digestive disorders, however in some countries regulatory requirements preclude the use of ASA and plant extracts containing ASA.

**Aspidyn-T** is just one of the products developed with the aim of providing ASA like properties by selecting various herbs and has been developed over a number of years. The herbal blend used in Aspidyn T and indeed all Biagral product ingredients are authorised for use in the EU Feed additives directive (Council Directive 70/524/EEC).

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Initially, various plant derived compounds were screened by elaborative research to identify plants with the following characteristics:

- analgesic properties: reduction of pain
- antipyretic properties: reduction of fever
- anti-inflammatory properties: reduction of inflammation
- diuretic properties: to improve water and feed uptake

Identification of '*extracts*' was made based on these specific requirements;

Properties of ASA	Plant derived compounds with similar properties	Family of plants
Analgesia	Flavonoids Tanins	Salicaceae
Antipyrexia	Flavanoids Phenols	Berbericaceae
Anti-inflammatory	Flavanoids Phenols Polysaccharides	Scrophulariaceae
Diuresis	Flavonoids Triterpenic saponids	Betulacae

There are several factors that influence the effectiveness of the finished products such as:

- the specific parts of the plants from where the ingredients are derived and the nature of the production process
- the genetic strain of the plant chosen
- the age of the plant
- the dosage of the individual '*extracts*' included in the product
- the method of extraction
- the duration of the harvest/extraction time
- compatibility with the other ingredients





Consequently, painstaking research was carried out taking into account all the above elements in order to define the most beneficial formulation of 'extracts' for **Aspidyn-T** to ensure maximum benefit is gained in all the areas identified. The initial formulation of **Aspidyn-T** contained 'extracts' from the following plant families:

**Salicaceae:** providing anti-inflammatory, antiseptic, and antipyretic properties

**Betulaceae:** providing diuretic properties

**Scrophulariaceae:** providing additional anti-inflammatory properties



After several clinical trials, a fourth plant 'extract' is added: Tormentil from the **Rosaceae** family of plants.

The astringent and wound healing properties of Tormentil complement the activities of the other plant 'extracts' potentially supporting the re-establishment of intestinal cells.

Biagral has developed two unique extraction methods to obtain the plant 'extracts' of the nature and quality required for use in their products: 'cold water extraction' and 'warm water extraction'. No chemical solvents are used in the extraction process which means that the extraction process 'mimics' the digestive process as if the plants had been fed to animals and only delivers the most natural mix of ingredients contained in the plants to the birds under treatment. The choice of technique used depends on the characteristics of the particular 'extracts' concerned. Water is used as a solvent in both extraction methods rather than the easier alcohol or other solvent extraction methods employed by some lower grade plant extracts. After extraction, the liquid obtained is purified by physical means resulting in a high quality, highly concentrated extract.

## Aspidyn-T

**100% natural liquid feed supplement based on a blend of 5 herbs for administration to poultry.  
Supports feed intake, stimulates growth performance. Increases live bodyweight and decreases FCR.**

### COMPOSITION

Plant extracts from the following plant families: Salicaceae, Betulaceae, Berbericaceae, Scrophulariaceae, Rosaceae.

**Natural organic acids:** Formic acid, Propionic acid. Sodium chloride, Magnesium sulphate.

### TARGET SPECIES

**Poultry:** broilers, breeders and layers

### OBJECTIVES

**Aspidyn-T can be used in poultry for the following reasons:**

- use in periods of decreased appetite and consequent reduction in feed intake involving digestive upset.
- as a support for birds suffering from infectious agents that lead to inflammation and pyrexia (fever).
- supporting appetite and maintaining effective digestion, with the aim of assisting in uniformity in development

### PRINCIPLES

Powerful anti-oxidative action of naturally occurring poly-phenolic plant extract ingredients.  
Use of aromatic plant extracts to encourage feed intake.

### DIRECTIONS FOR USE

#### **Digestive upset:**

0.4ml per Kg bodyweight for 2-3 days then 0.2ml per Kg bodyweight for 3 to 5 days administered in the drinking water over 24 hours.

#### **Support in the event of exposure to infectious agents:**

0.2ml per Kg bodyweight for 5-7 days.

No information is available concerning combined use with other products. Seek advice from your veterinarian on this matter.

**Withdrawal period:** Zero

**SHAKE WELL BEFORE USE**

**GMP Certified**

**SUITABLE FOR ORGANIC PRODUCTION SYSTEMS**

### SAFETY INSTRUCTIONS

This product is completely safe for animals or humans.

No negative effect due to the taste of this product has been experienced. The product is based entirely on naturally occurring ingredient and leaves no residues in animals or the environment. This product is non-corrosive.

**PHYSICAL PROPERTIES** Solubility in water: 100% Colour: light brown

Viscosity: comparable with water

Odour: mildly aromatic

**PACK SIZE:** 5 Litres