

Technical Data Sheet **ACB White Willow Bark Extract 20%**

Tomorrow's Vision... Today!®

Code Number:	20199
INCI Nomenclature:	Salix Alba (Willow) Bark Extract
INCI Status:	Approved
Suggested Use Levels:	1.0 - 10.0%
Suggested Applications:	Exfoliation, Problem Skin, Antimicrobial

The White Willow (*Salix alba*) tree is a large tree that is native to North America, Asia and Central and Southern Europe. It is typically found near streams and rivers, where it can root near a constant water source. The tree is tall and slender and flowers each spring first with tiny yellow flowers, which are followed by long thin green leaves.



There over 300 species of willow trees growing globally, yet only a few can be used medicinally. The White Willow belongs to the Salicaceae family. Other species that possess medicinal properties are the purple willow (*S. Purpurea*), violet willow (*S.daphnoides*), and crack willow (*S. fragilis*).

White Willow is an ancient remedy that has been used to treat pain by Chinese physicians since 500 B.C. It has also been used in ancient Egyptian and Greek medicine. Hippocrates recommended chewing on the leaf to alleviate pain. Evidence of the use of White Willow as a medicinal herb also exists in Europe and the Americas.

In the mid-1700's White Willow was used in England as a malaria remedy. In the Americas, the Cherokee, Blackfoot, and Iroquois Indians created a tea from the bark of the White Willow to relieve headaches, fever, and general aches and pains. Then in 1828, German and French chemists were able to isolate the principal active component, salicin, a glucoside of Salicylic acid, from the bark of the White Willow. Upon ingestion into the human body, salicin is hydrolyzed to release salicylic acid in the stomach. Toward the end of the nineteenth century salicylic acid was converted into the synthetic compound, acetylsalicylic acid, the active ingredient used to make aspirin.

Today, willow bark extract is still used as an herbal remedy, which acts as an anti-inflammatory and analgesic agent. In the Cosmetic Industry, willow bark extracts are employed as a natural source of salicylic acid. As reported at the Society of Investigative Dermatology (Washington 1996: Bennet, Scholz, et al.) Willow Bark Extract provides the benefits of salicylic acid such as exfoliation, and anti-microbial action, without any of the typically associated irritation.

In its standardized form White Willow Bark Extract provides consistent levels of salicylic acid allowing its use as an active ingredient. Unfortunately, in commercially available extracts the salicylic acid levels rarely exceed 10%, making it difficult to formulate products with sufficient quantities in emulsion systems, and impossible to formulate in anhydrous systems.



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ACB White Willow Bark Extract 20%

ACB White Willow Bark Extract 20% has a standardized activity of greater than 50% salicylic acid. An off-white, water-soluble, impalpable powder, this extract can easily be incorporated into aqueous and more importantly, anhydrous systems. This innovative product form allows for the formulation of aesthetically elegant decorative cosmetics for the treatment of problem skin as well as an economical alternative for traditional emulsion systems.

In its standardized form ACB White Willow Bark Extract 10%/20% provides consistent levels of salicylic acid allowing its use as an active ingredient. ACB White Willow Bark Extract 10% and 20% are completely water soluble and may be used in any cosmetic formulation to enhance cell turnover, act as a natural anti-microbial agent, or as a replacement for synthetic salicylic acid.

To verify efficacy of our product we conducted a standard Dansyl Chloride Cell Renewal Study on human subjects.

% Increase in Cell Renewal

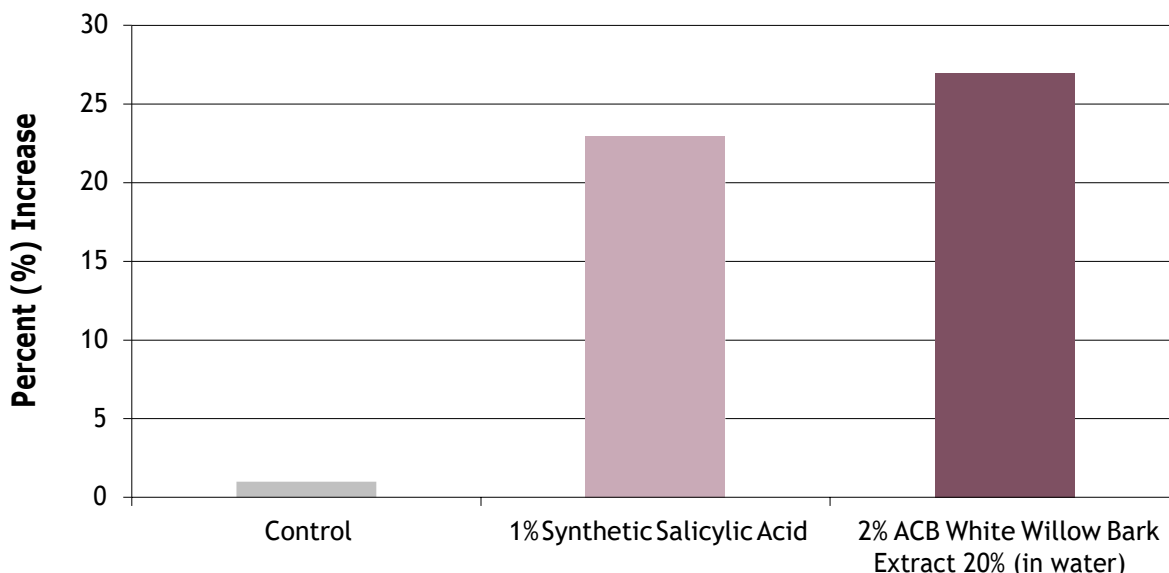


Figure 1. Increase in cell renewal following application of **ACB White Willow Bark Extract 20%**.

Number of Subjects	15 (f subjects ages 19 - 43)
Dansyl Chloride	5% Petroleum Base
Test Material	Water (control) 1% Synthetic Salicylic Acid (Aqueous Solution pH 3.9) 2% ACB White Willow Bark Extract 20% (1% Salicylic Acid Conc.)