



# PENETRATE 50

## Organically Listed Phytogetic Plant Extract from *Yucca Schidigera*

*Yucca schidigera* is a member of the Agave family that grows widely in the south western United States and in Mexico. From this arid environment where the yucca has adapted, a concentrated extract from the tree is processed into a pure extract that is applied as a soil surfactant and plant growth promoter utilizing the bioactive saponin compounds which have antibiotic and antimicrobial properties.

At seed planting fungi are considered to be the most important group of plant pathogens in agriculture, causing both quantity and quality losses. Under favorable environmental conditions, seed borne pathogens affect seed germination, plant vigor, and cause disease in seedlings and plants if not properly managed. The early treatment of seeds with yucca has been shown to improve seed quality and plant growth in the form of increased number of normal seedlings, seedling emergence and seedling vigor. The antifungal activity of yucca has been associated with the presence of saponins in the extract.

As a natural surfactant, Penetrate enhances moisture and nutrient uptake by plants; promoting more efficient utilization of available water, fertilizer, and minerals. Penetrate has been shown to positively impact soil penetration and plant growth across a variety of horticultural research applications and has been proven to provide significant financial returns to the end user by field use for over 40 years.

Packaging 55 gallon drums and 275 gallon totes