

Floralife® **RESEARCH UPDATE**

Anil Ranwala, PhD., Chief Postharvest Researcher, Floralife, Inc.
August, 2005 Volume 7, Issue 8

Effects of EthylBloc® Treatment on Cut Flowers and Bedding Plants

Background

Ethylene is a gaseous plant hormone that influences many growth and developmental processes in plants including senescence (death). Plants and flowers respond to ethylene from external sources (e.g. propane heaters, gas-powered forklifts and smoke) as well as ethylene generated by them (internal ethylene). The shelf life of many cut flowers, bedding plants and potted plants can be severely reduced by the exposure to ethylene.

Research

EthylBloc® is an EPA-registered ethylene action inhibitor that protects plants from both external and internal ethylene. The following photographs illustrate the protective effects of EthylBloc® treatments observed during recent experiments. All plants were exposed to ethylene after EthylBloc® treatment.

Results

'Madness Rose' Petunia



No EthylBloc® EthylBloc®
(Photo courtesy of Dr. Jim Barrett, Univ. of Florida)

'Delphi' Carnations



No EthylBloc® EthylBloc®

Delphiniums



No EthylBloc® EthylBloc®

'Lascar Blue' Verbena



No EthylBloc® EthylBloc®
(Photo courtesy of Dr. Jim Barrett, Univ. of Florida)

'Leonidas' and 'White Majolica' Roses



No EthylBloc® EthylBloc®

Conclusion

EthylBloc® protects plants from ethylene-induced damage in many cut flowers and bedding plants.

For more information or to download a copy of our "Care and Handling Manual" online, visit www.floralife.com. Questions? e-mail: info@floralife.com

751 Thunderbolt Drive, Walterboro, SC 29488
Ph 800.323.3689 ~ 843.538.3839
Fax 800.471.4248
E-mail: info@floralife.com ~ www.floralife.com