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Results of fumigation of fresh flowers – QuickPHlo – R™ phosphine generator

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ABSTRACT

There is a demand for phosphine as fumigation with methyl bromide being banned in many countries for quarantine fumigation. Methyl bromide application is complex and does not disperse easily inside the enclosures. It leaves residue in the commodity. Phosphine is the most preferred fumigant. However, aluminum phosphide tablets cannot be used for fresh flower fumigation because they are phytotoxic.

UPL Ltd. has developed a technology to generate pure phosphine gas in an hour and is ammonia free. QuickPHlo – R phosphine generator is used with QuickPHlo – R aluminum phosphide 77.5% granules for the trials.

We conducted experiments on roses at various locations and on tulip bulbs to assess the mortality on insect pests – *Tetranychus* spp (Mites), *Frankliniella* spp (Thrips) and *Thaumatotibia leucotreta* (FCM) and to determine for change in colour or any other detrimental effects. Different behaviours in different insect pests were observed at various locations.

Keywords: Fumigation, Phosphine, QuickPHlo – R phosphine generator, QuickPHlo – R aluminum phosphide 77.5 % granules, Insect pests, Cut flowers