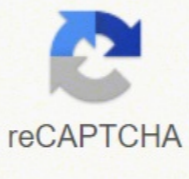




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Next

Chloroform negative side effects



Field Crop Production

Original scientific paper

Changes of some chlorophyll-fluorescence parameters under biofertilization

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Abstract

This research has aimed to investigate how biofertilization influences plant production, what effects the application of biofertilizers exercise on the parameters of chlorophyll-fluorescence. The different nitrogen deficiency level cause reduction in the potential photochemical activity (Fv/Fm) compared to the normal nitrogen amount. The applied biofertilizer could compensate the effect of nitrogen deprivation. The Fv/Fm was higher if the reduced nitrogen supply was supplemented with biofertilizer as compared to the values of different nitrogen deficiency levels without biofertilizer treatments. The absence and normal amount of nutrients reduce positive effect of biofertilization.

Key words: biofertilizer, chlorophyll-fluorescence, plant nutrition

Introduction

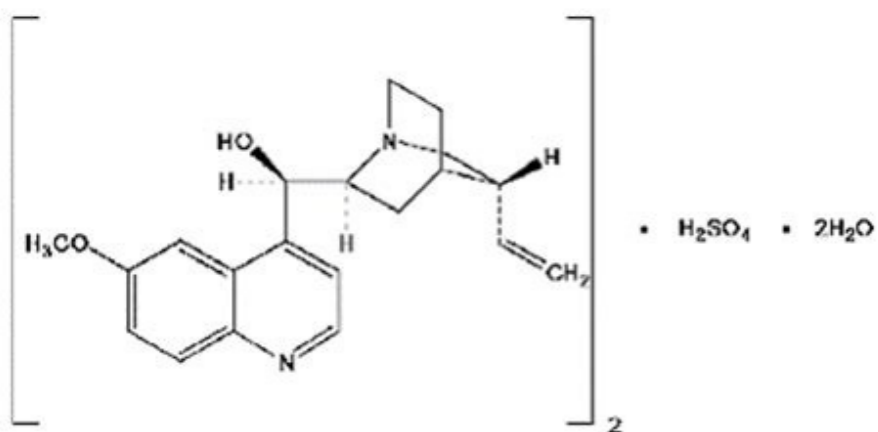
Environmental protection is getting more important for the agrarian, because of the purpose of sustainable agriculture. Although the quantitative growth of dry matters, the sufficient extent of plant production are essential factors with respect to the efficiency of agricultural production. It is an important issue whether the replacement of organic fertilizers and chemical fertilizers with biofertilizers causes a beneficial increase in dry weight (Lévai *et al.*, 2006). From the point of view the dry matter production, which is very important in agronomy, the photosynthetic efficiency and the dry matter production has a questionless role. Changes in the potential photochemical activity and the amount of dry matter are indicative for the adverse circumstances (Veres *et al.*, 2000). The applied biofertilizer contains plant growth promoting bacteria (PGPB). These non-infecting PGPB rhizosphere bacteria might affect mineral nutrition of plants through their influence on: 1. growth, morphology and physiology of roots; 2. the physiology and development of plants; 3. the availability of nutrients, and nutrient uptake processes. A lot of microorganisms, for example species of *Bacillus* and *Pseudomonas* have a direct effect on the plant growth (Klopper *et al.*, 1986). The method of chlorophyll fluorescence is widely use to detect physiological status of plants under different abiotic situations for example, in presence of nutrient deficiency, cold-, high temperature-, drought-, light- and UVB-stress (Lichtenthaler and Rinderle, 1988; Tóth *et al.*, 2002). It has recently been shown that a parameter derived from chlorophyll fluorescence, the ratio of variable/maximum fluorescence, F_v/F_m , is a quantitative measure of the photochemical efficiency of photosystem II (Maxwell and Johnson, 2000). The accumulation of excessive excitation energy can cause photoinhibition or photooxidation in the photosynthetic apparatus, and the reduced values of Fv/Fm indicate that a proportion of PSII reaction centres are damaged. According to Björkmann and Demmig-Adams (1987) the estimated value of

662

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COSMETICS SIDE EFFECTS AND ALLERGIES

On Human skin



Total adult dosage should not exceed 30 mL (3 vials) a day for more than 3 consecutive days except in the treatment of tetanus. AFTER MIXING WITH I.V. INFUSION FLUIDS, DO NOT REFRIGERATE. It may also be added to an intravenous drip of Sodium Chloride Injection (Sterile Isotonic Sodium Chloride Solution for Parenteral Use) or five percent Dextrose Injection (Sterile 5 percent Dextrose Solution); one vial given as a single dose should not be diluted to more than 250 mL for I.V. infusion. For the severest cases or in postoperative conditions in which oral administration is not feasible, additional doses of 1 gram may be repeated every 8 hours up to a maximum of 3 g/day for no more than 3 consecutive days. Methocarbamol does not directly relax tense skeletal muscles in man. For Adults inject one or two vials directly into the tubing of the previously inserted indwelling needle. The injections may be repeated at eight hour intervals, if necessary. The mode of action of this drug has not been clearly identified, but may be related to its sedative properties. Care should be exercised to avoid vascular extravasation of this hypertonic solution, which may result in thrombophlebitis. This procedure should be repeated every six hours until conditions allow for the insertion of a nasogastric tube. Store at 20°- 25°C (68°- 77°F), excursions permitted to 15°- 30°C (59°- 86°F). The total dose should not exceed 1.8 gm² for 3 consecutive days. ROBAXIN Injectable should be added to the regimen as soon as possible. Dosage and frequency of injection should be based on the severity of the condition being treated and therapeutic response noted. Not made with natural rubber latex. Directions For Intravenous Use ROBAXIN Injectable may be administered undiluted directly into the vein at a maximum rate of three mL per minute. It is preferable that the patient be in a recumbent position during and for at least 10 to 15 minutes following the injection. To report SUSPECTED ADVERSE REACTIONS, contact West-Ward Pharmaceuticals Corp. Crushed methocarbamol tablets suspended in water or saline may then be given through this tube. The maintenance dosage may be given by injection into tubing or by I.V. infusion with A an appropriate quantity of fluid. If the condition persists, a like course may be repeated after a drug-free interval of 48 hours. For the relief of symptoms of moderate degree, one dose of 1 gram (one 10 mL vial) may be adequate. Revised: Oct 2017 HOW SUPPLIED ROBAXIN Injectable (100 mg/mL) supplied in - 10 mL single dose vials in packages of 25 (NDC 0641-6103-25). DOSAGE AND ADMINISTRATION For Intravenous and Intramuscular Use Only. Ordinarily this injection need not be repeated, as the administration of the oral form will usually sustain the relief initiated by the injection. It does not, however, replace the usual procedure of debridement, tetanus antitoxin, penicillin, tracheotomy, attention to fluid balance, and supportive care. Directions For Intramuscular Use When the intramuscular route is indicated, not more than five mL (one-half vial) should be injected into each gluteal region. Total daily oral doses up to 24 grams may be required as judged by patient response. This dosage may be repeated every six hours, if required. Manufactured by: WEST-WARD A HIKMA COMPANY, Eatontown, NJ 07724 USA. Not Recommended for Subcutaneous Administration. Special Directions For Use In Tetanus There is clinical evidence which suggests that methocarbamol may have a beneficial effect in the control of the neuromuscular manifestations of tetanus. For Pediatric Patients A minimum initial dose of 15 mg/kg or 500 mg/m² is recommended. See directions for I.V. use. The injectable form of methocarbamol is indicated as an adjunct to rest, physical therapy, and other measures for the relief of discomfort associated with acute, painful musculoskeletal conditions. at 1- 877-845-0689 or the FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. For Product Inquiry call 1-877-845-0689. An additional 10 mL or 20 mL may be added to the infusion bottle so that a total of up to 30 mL (three vials) is given as the initial dose (see PRECAUTIONS). When satisfactory relief of symptoms is achieved, it can usually be maintained with tablets.

Apalutamide, sold under the brand name Erleada among others, is a nonsteroidal antiandrogen (NSAA) medication which is used in the treatment of prostate cancer. It is specifically indicated for use in conjunction with castration in the treatment of non-metastatic castration-resistant prostate cancer (NM-CRPC). It is taken by mouth... Side effects of apalutamide when added to ... 16/02/2017 · Adverse Health Effects of Decaf Coffee. Harmful to Heart Health. Per the American Heart Association, decaffeinated coffee may cause an increase in harmful LDL cholesterol. Read more about side effects of coffee here. It increases a particular type of blood fat linked to metabolic syndrome. 01/11/2021 · Bisoprolol Fumarate Tablets, USP 10 mg are white, circular, biconvex, film coated tablets, debossed with 'C' on one side and '87' on the other side. Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature]. Protect from light and moisture. 22/07/2021 · Celestone Description. Celestone ® Oral Solution, for oral administration, contains 0.6 mg betamethasone in each 5 mL. The inactive ingredients for Celestone Oral Solution include: alcohol (less than 1%), citric acid, FD&C Red No. 40, FD&C Yellow No. 6, flavors, propylene glycol, sodium benzoate, sodium chloride, sorbitol, sugar, and water. Mirtazapine, sold under the brand name Remeron among others, is an atypical antidepressant, and as such is used primarily to treat depression. Its effects may take up to four weeks, but can also manifest as early as one to two weeks. It is often used in cases of depression complicated by anxiety or insomnia. The effectiveness of Mirtazapine is comparable to other commonly ... 12/07/2021 · Cardizem LA (Diltiazem) may treat, side effects, dosage, drug interactions, warnings, patient labeling, reviews, and related medications ... 10/08/2020 · DRUG INTERACTIONS Anticholinergic agents. Although ipratropium bromide is minimally absorbed into the systemic circulation, there is some potential for an additive interaction with concomitantly used anticholinergic medications. Caution is, therefore, advised in the coadministration of DuoNeb (ipratropium bromide and albuterol sulfate) with other drugs ...

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