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Application and Validation of the PlantVital® Device

To whom it may concern

During my period of Director of the Leibniz Institute of Freshwater Ecology in Berlin, that is since several years, the PlantVital® device and its precursors for photosynthetic measurements of aquatic macrophytes as well as algae have been tested and used by my students and research associates, Drs. S. Pflugmacher and C. Wiegand. I am glad to have the chance to review the application of the well-working device.

The PlantVital® system provides the unique opportunity to gather easily and reliably several physiological parameters of algae, macrophytes, and pieces of macrophytes. Besides the oxygen production itself, vitality such as efficiency of oxygen production can be monitored. By exposing plant material to man-made chemicals, natural allelochemicals (such as cyanotoxins), and environmental signaling chemicals (such as humic substances), the changes in vitality can sensitively be checked. Interestingly, even very weak interferences like those upon exposure to humic material, can be identified with the PlantVital® System. Results can be obtained easily and in very short periods of time, since hard and soft ware are working well without any problems.

The output of papers, listed below, shows that my students love to work with this device and produce lots of nice results. I feel that this statement may be the most convincing advertisement.

Sincerely,



Prof. Dr. C.E.W. Steinberg

Reference from my laboratory

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