



Separation of nucleotides and inorganic phosphate for quantification of DNA reference materials based on phosphorus analysis using high performance liquid chromatography–inductively coupled plasma-mass spectrometry (HPLC-ICP-MS)

Yang Xue

Laboratory of Biometrology, Shanghai Institute of Measurement and Testing Technology, 1500 Zhang Heng Road, Shanghai, PR China



Abstract:

Deoxyribonucleic acid (DNA) is a carrier of genetic information but also an organic compound with complex molecular structure [1]. Accurate quantification of DNA is of great importance for many critical areas, including many biological, clinical and microbiological analyses. The most routinely used traditional methods for DNA quantification are UV spectrophotometry (UV) and fluorescent dye, but their sensitivity and stability is still quite limited. Quantitative PCR (qPCR) dramatically improved the limit of detection (LOD), yet is still facing higher risk of false positives. Most importantly, the traceability of DNA concentration remains a challenge in most of the gene analysis labs.



Biography :

Yang Xue has completed her bachelor's degree from East China University of Science and Technology. When she is at the age of 27 years, she get a master's degree from Shanghai Normal University. In 2018, she joins biometric innovation team in Shanghai Institute of Measurement and Testing Technology .

Publication:

1. Transcription Profile of Potato (*Solanum tuberosum* L.) Growing In Vitro
2. Effects of Light Intensity and Ground Cover on Seedling Regeneration of *Tetracentron sinense* Oliv.
3. RNA-seq Transcriptome Profiling of the Halophyte *Salicornia persica* in Response to Salinity
4. Restraint of Bagging on Fruit Skin Coloration in on-Tree Kiwifruit
5. *Rhizophagus irregularis* MUCL 41,833 Association with Green Cuttings of *Prunus* sp. Rootstocks

[7th Annual Congress on Plant Science and Molecular Biology, Auckland, New Zealand May 18-19, 2020](#) .

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