Rapid and Simple Determination of Phthalates in Plastic Toys by a Thermal Desorption-GCMS Method

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Abstract:
A thermal desorption (TD)-GC/MS method was applied for the determination of phthalates in plastic children's toys. The method, which does not need any cumbersome sample pretreatment such as solvent extraction, filtration and derivatization, has been proved to be useful not only as a sensitive analytical method to evaluate phthalate concentration in the toys, but also as a rapid and practical screening method to check whether the concentration exceeds the regulatory limit.

* Excerpted from online journal website (Click the title)

Frontier Labs products used:
Multi-functional pyrolyzer, Selective Sampler, MicroJet Cryo-Trap, UA+5