New Method for Fluoxetine Extraction and Determination in Pharmaceutics and Human Urine

Scientists from Tabriz University of Medical Sciences employed the Hettich EBA 20 tabletop centrifuge in their study entitled “Development of a dispersive liquid–liquid microextraction technique for the extraction and spectrofluorimetric determination of fluoxetine in pharmaceutical formulations and human urine.”

Fluoxetine is the most prescribed antidepressant medication worldwide. It is a selective serotonin reuptake inhibitor (SSRI) affecting chemicals in the brain that may become unbalanced. Existing methods for the determination of FLX were time-consuming and costly. The study aimed to develop a new, more efficient technique for FLX extraction and determination in pharmaceutical products and biological fluids.

Scientists experimented with the recent, miniature sample preparation technique dispersive liquid-liquid microextraction (DLLME) in combination with spectrofluorimetry to determine FLX levels. During the procedure, scientists used the Hettich EBA 20 tabletop centrifuge to accelerate the phase separation process.

After analyzing the results of the experiment, the scientists concluded that “the proposed method gives a very rapid, simple, sensitive, wide dynamic range and low-cost procedure for the determination of FLX.”

Hettich’s comprehensive line of centrifuges enables scientists to conduct important testing and research, such as this study on new, more efficient methods for FLX determination. The Hettich EBA 20 is a compact, safe and reliable tabletop centrifuge that is suitable for clinical testing and research in many fields.

Hettich EBA 20

Max. Capacity: .................. (up to) 8 x 15 mL
Max. RPM/ RCF: .................. 6,000/ 3,461
Temp. Control (Optional): ................. N/A

Learn more about the Hettich EBA 20 tabletop centrifuge at: www.hettweb.com/Products/hettich-eba-20-centrifuge.html

Reference: http://apb.tbzmed.ac.ir/AllIssues/Volume22012/22157.aspx