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"Better Surface Chemistry for Better Separation."

SPE (Solid Phase Extraction) Sample Prep Method for Melamine Separation

Sample preparation steps outline below using Sepax-UCT DBX SPE (60mg/3ml, P/N **SSDBX063)** are applicable to any diary products including baby formula, any milk products, biscuits, and etc.

Take 5g of Baby formula/powdered milk sample, mix into 50ml of 1% Trichloroacetic acid, and shake well. Add 2ml of 2% lead acetate, sonicate for 20 minutes followed by 10-minute centrifugation (8000/rpm). Collect supernatant as sample for SPE loading.

SPE steps are as follows:

(1) SPE column activation: take Sepax-UCT DBX column (60mg/3mL, P/N: SSDBX063), wash by 3mL methanol and 3ml water respectively.

(2) Loading: taking 3mL of above prepared solution and add to the top of activated SPE column. Control droplet flow rate within 1mL/min.

(3) Washing: 3mL water and 3mL methanol wash through, vacuum till dry.

(4) Elution: Take 5mL methanol solution containing 5% ammonia for washing, collect elution, dry with nitrogen under 50℃, and then add 2mL mobile phase solution for HPLC separation.