Extraction of Fat from Nut Products

Procedure

1. Homogenize, mill, or cryomill the sample. The S1 Q-Disc, is a preassembled sandwich of the G1 Q-Disc between two C9 Q-Discs. Place entire sandwich, excluding the blue separator, into the bottom of the Q-Cup, and assemble the Q-Cup.
2. Weigh the sample into the Q-Cup.
3. Insert a Q-Screen into the Q-Cup using the Q-Screen tool.

Notes

Sample Types: peanut butter, hazelnut paste brazil nuts, cashews, hazelnuts, peanuts, and pumpkin seeds
This is not an exhaustive list of possible sample types

Sorbents

N/A

Solvents

Petroleum Ether

Sample Weight

≤3 g

Equipment

EDGE
Q-Screen
60 mL collection vials

Q-Disc

S1

Heating Program

Cycle	Top Add (mL)	Bottom Add (mL)	Rinse (mL)	Temp (°C)	Hold (mm:ss)
1	30	0	0	140	5:00
2	30	0	0	140	5:00

Note: Temperature and hold times may vary depending on the sample and analytes of interest.

Wash Program

Cycle	Solvent	Volume (mL)	Temp (°C)	Hold (mm:ss)
1	Petroleum Ether	30	30	0:15

General Guidelines

a) This procedure is a reference point for sample extraction using a CEM system and may need to be modified or changed to obtain required results on your sample or analytes of interest.
b) Wear hand, eye, and body protection when handling organic solvents.
c) Any of CEM's collection vials/centrifuge tubes in the correct size for the rack owned may be used.
d) Verify needed solvents are loaded onto the system with sufficient volume. Load the rack containing sample(s) into the EDGE. Select the method and position to load method. Press play and add any any sample ID's, etc. as needed.
e) Bring to volume or evaporate as necessary for analysis.