

Food, Pharma, Cosmetic

Digestion of Oil

Summary Oil is digested in a Berghof stainless steel high pressure digestion system.

Method

Equipment

	Type	Manufacturer
	DAB-3	Berghof Products + Instruments GmbH
	Vessel volume 250 mL	Berghof Products + Instruments GmbH

Reagents

	Acid	Volume
	HNO ₃ (65%)	10 mL

Procedure*

Weigh 1.0 g of the sample into the digestion vessel. Add 10 mL of HNO₃. Allow the mixture to react for a period of at least 10 minutes. Close the vessel and heat with the following program.

Temperature Program	Step	T [°C]	Time [min]**
	1	200	240

Note: To avoid foaming and splashing wait until the vessels have cooled to room temperature. Carefully open the digestion vessel in a fume hood wearing hand, eye and body protection since a large amount of gas will be produced during the digestion process.

Results

Clear solution

Note: This application serves only as a guide line and may need to be optimized for your sample.

*For other high pressure digestion vessels the maximum sample mass and volume of the acid mixture required can easily be calculated from the proportion of the inner vessel volumes.

**This time includes the heating-up period

