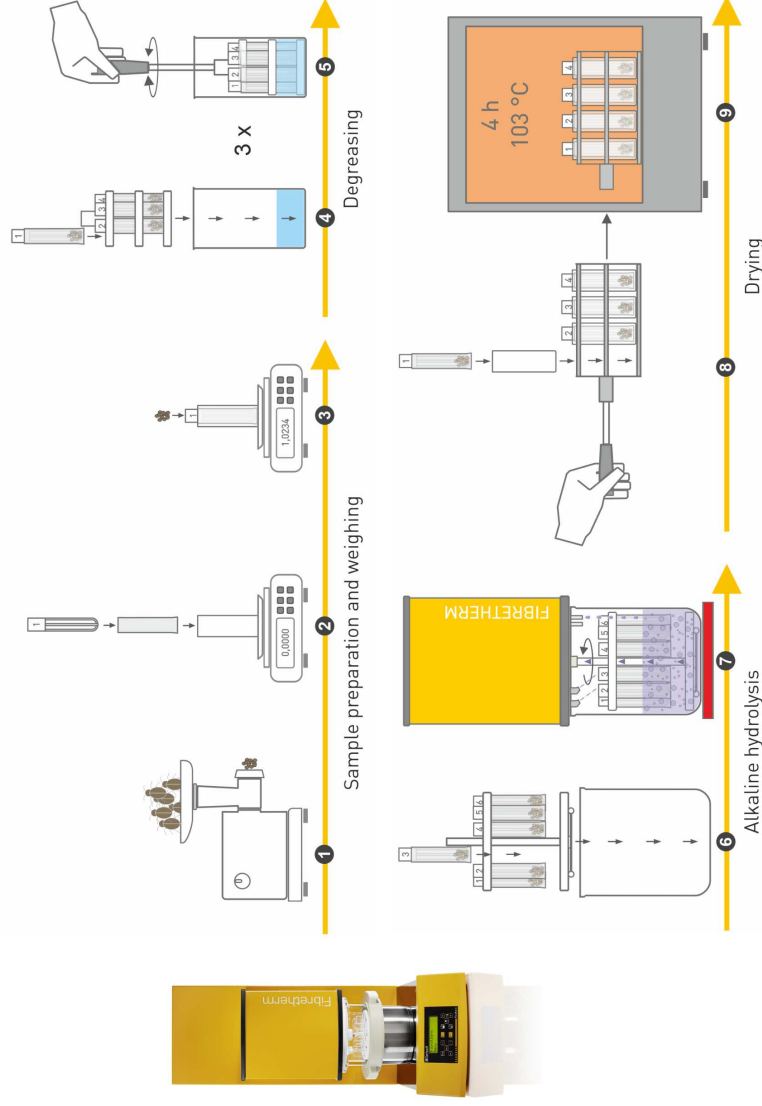
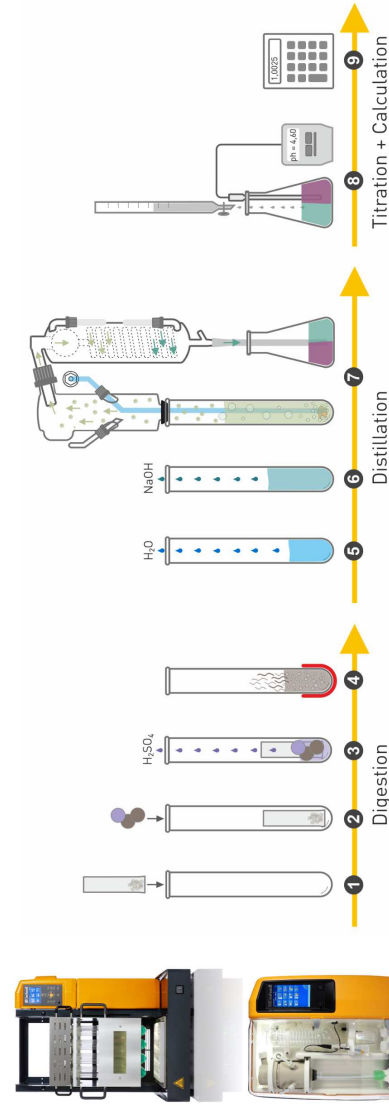


Analysis of chitin in insects

Step 1 – Deproteinisation through alkaline hydrolysis with FIBREThERM



Step 2 – Nitrogen determination with KJELDATHERM / TURBOTHERM and VAPODEST



$$w(\text{chitin}) = \frac{(V_1 - V_0) \times c_{\text{NaOH}} \times f \times 20,319}{m_{\text{sample}}}$$

c_{NaOH} = Equivalent concentration of the standard solution
 f = Titer of the standard solution used for the residue after
 $20,319$ = Factor for calculating the chitin content
 V_1 = Volume of the standard solution used for the process [ml]
 V_0 = Volume of the standard solution used for the process [ml]
 m_{sample} = Weight of the sample placed in the FibreBag [g]