



Flux Titration Kit

WORK INSTRUCTIONS

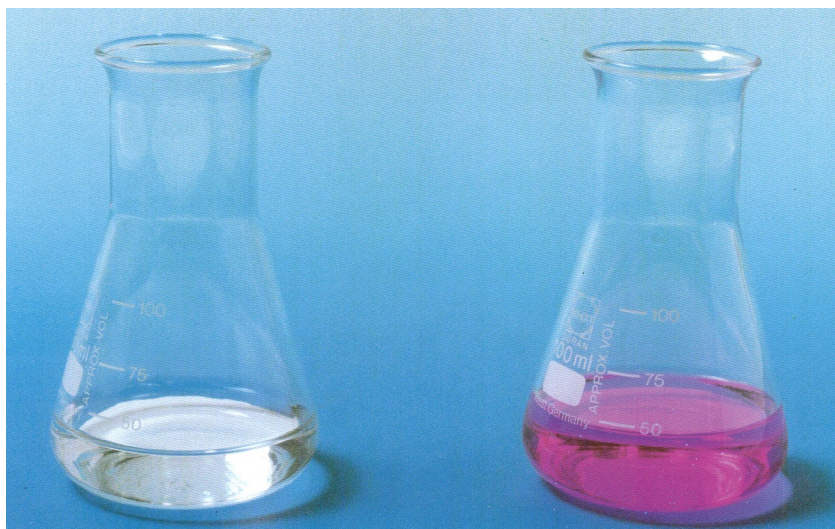
- Contains following tools:
- Bottle of 500ml/ 50ml
 - Bottle of 100 ml
 - 2 Erlenmeyers
 - 2 pipettes 5 ml + 1 green Pi-pump
 - 2 pipettes 1 ml + 1 blue Pi-pump
 - Instruction Sheet, Material safety Data Sheets
- Neutral solution Reagent**

How to use

- Step 1 : Squeeze 40ml of the solution into the measuring jug and bring over into one of the erlenmeyers
- Step 2 : Put a 1ml pipette into the blue Pi-Pump, take 1ml out of the flux tank. Dispense this quantity into the erlenmeyer and mix.
- Step 3 : Put a 5ml pipette into the green Pi-Pump and **draw exactly 5ml** liquid out of the 100ml bottle (**Reagent**). During mixing, add this liquid with the pipette into the erlenmeyer. This until the **medium** turns **lila-purple**.
- Step 4 : Titration is fulfilled when the complete solutions stays **lila-purple** for more than 15 seconds

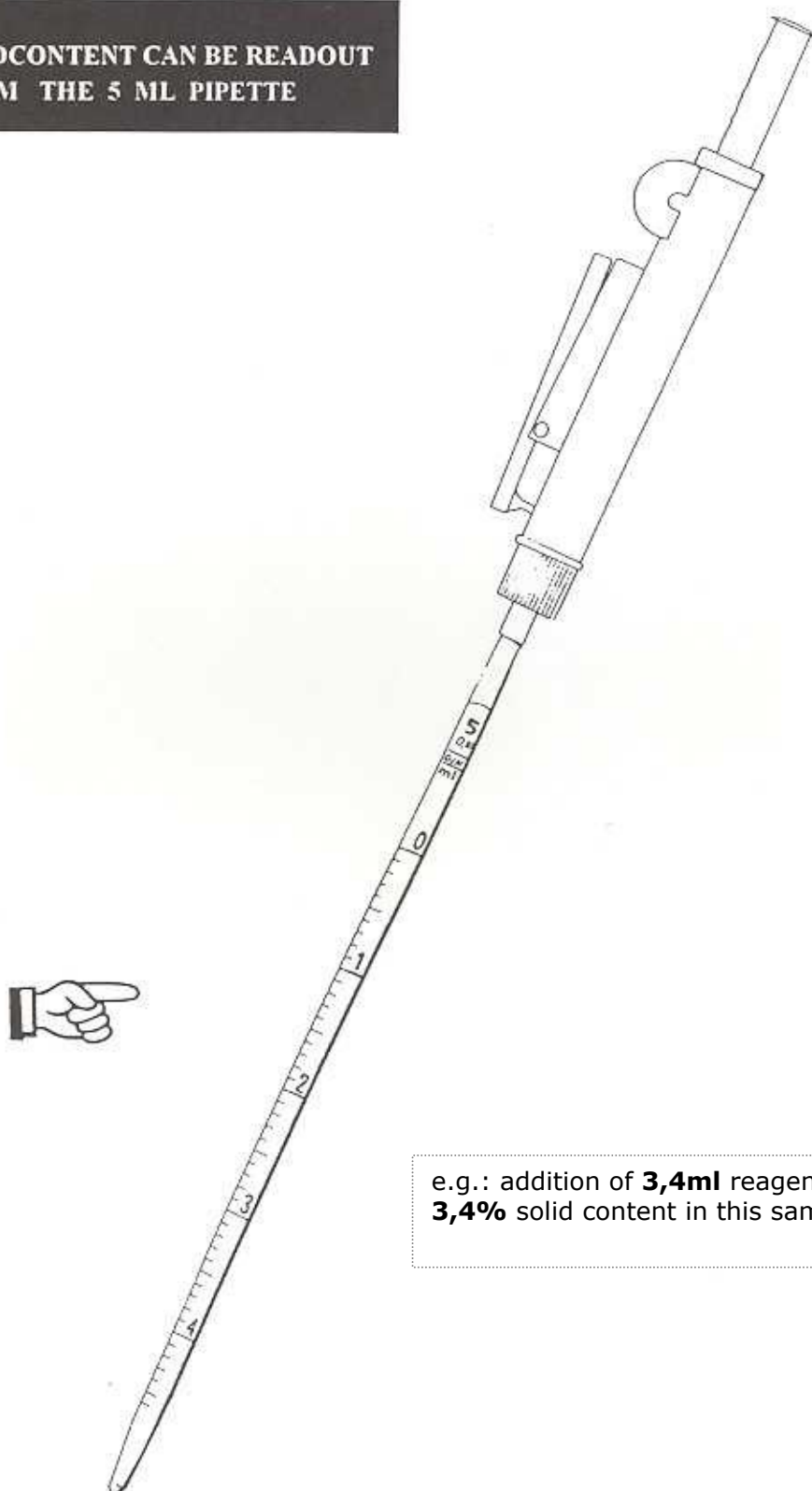
Solid content can be readout from the 5ml pipette.

Steps	1	2	3
Colour	Clear		LILA-PURPLE
Contains	40ml solution	+ 1ml Flux	+ Reagent ! Readout % Solids





% SOLIDCONTENT CAN BE READOUT
FROM THE 5 ML PIPETTE



e.g.: addition of **3,4ml** reagent means
3,4% solid content in this sample



TITRIMETRIC ANALYSIS

Titrimetric analysis is a process in which one measures the volumes of the substances that enter into a particular chemical reaction. This method uses **standard solutions**, these are solutions of known concentration, prepared to contain some specific reagent, called a **titrant**. During a titration, a known concentration of a substance (titrant) is slowly dispensed from a burette into another solution containing an unknown concentration of a second liquid called the analyte, which will react with the titrant. The titrant is dispensed until there is some indication that the equal amount of substance of the unknown material has been added. This indication is a change in color. The instant when this occurs is called the **point of equivalence**. Titrimetric analysis is remarkable fast and accurate.

ACID – BASE TITRATION

Acid – base titration is a type of titration used to determine the concentration of acids in various substances. When a solution of an acid and hydroxide is mixed, a recombination takes place between H⁺ and OH⁻ ions to H₂O (a neutral substance).



An acid-base reaction is therefore a neutral reaction.