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Product Name :

Properties of Aspirin

Product Code :

SLE/CH/171



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Description :

Properties of Aspirin (Product Code: SLE/CH/171) is a consumer-chemistry investigation in which students trace the history of acetylsalicylic acid and then put several commercial types of aspirin to the test. Designed for secondary and introductory college chemistry, it is a chemistry teaching kit that links acids, bases and solubility to a medicine students already recognise. The kit is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Investigations	Solubility of aspirin in varying gastrointestinal environments; active ingredients in regular and extra-strength aspirin; differences between regular and buffered aspirin
Class capacity	Enough materials for fifteen groups
Aspirin samples	All aspirin samples included
Documentation	Teacher’s Manual and Student Study Guide copymasters

Kit contents:

- 45 Disposable Medicine Cups
- 5 x 30 ml Hydrochloric Acid, 1M Solution
- 8 x 30 ml Sodium Hydroxide, 1M Solution
- 1 x 30 ml Phenolphthalein, 1% in Ethanol
- 1 Pkg/50 Universal Indicator Strips
- 1 Pkg/15 Graduated Plastic Pipettes
- 1 Pkg/75 Aspirin, Regular
- 1 Pkg/60 Aspirin, Buffered
- 1 Pkg/45 Aspirin, Enteric Coated
- 1 Pkg/15 Aspirin, Extra Strength

Typical Use

Groups place tablets of each type in medicine cups containing the acid and base solutions, then watch how quickly and how completely each one breaks up. The contrast between regular and enteric coated tablets in acidic conditions is usually the most striking result, and it opens a discussion on why some tablets are designed to pass the stomach before dissolving. Universal indicator strips and phenolphthalein let students track pH changes, while the graduated pipettes keep liquid volumes consistent from group to group so results can be pooled on the board.

A second session can compare regular with extra-strength and buffered aspirin, helping students connect dose, formulation and the chemistry of neutralisation. The copymasters give teachers a ready structure for pre-lab questions and data tables. Because the kit uses 1M hydrochloric acid and 1M sodium hydroxide, students should wear safety goggles and gloves, and all tablets must be treated strictly as laboratory samples, never taken by mouth.

Supplier

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