

Comparison of the active ingredient and purity of two different commercial Aspirin tablets

Laboratory Report

This experiment provided you with an opportunity to complete a reasonably in-depth practical investigation over a series of sessions. Your report should adhere to the following guidelines (with word limits):

Introduction – An outline of the aims of the investigation (100 words)

Background to Aspirin – A summary of the historical features relating to this essential drug (100 words)

Methods – A brief overview of the methods and techniques employed in the practical work (100 words)

'Storyline' – A session-by-session account of how the investigation progressed (100 words)

Results - Tabulate all of your findings including % recoveries for different methods, melting points, IR spectra, chemical tests and titrations. Show any calculations that you think to be important.

Discussion – This section should be an integration of all of your findings. You may want to consider the following questions but you are encouraged to also consider some of your own:

- (1) What is the major component in each sample of Aspirin ?
- (2) How was the answer to (1) determined ?
- (3) Are there any differences between the two samples ? If so, what are they ?
- (4) What can you conclude from the two extraction methods (e.g. are either of the methods quantitative ? Are the methods selective (i.e. extract contains only one component) ?
- (5) Suggest an application where each method may be the preferred option

References – A summary of where you have found reference data

Author	Simon Belt
Title	Analysis of Aspirin
Classification	Laboratory Manuals - Chemistry
Keywords	ukoer, Aspirin, titration, HPLC, analytical, Soxhlet
Description	Individual lab sheet
Creative Commons Licence (url)	http://creativecommons.org/licenses/by-nc-sa/2.0/uk/
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