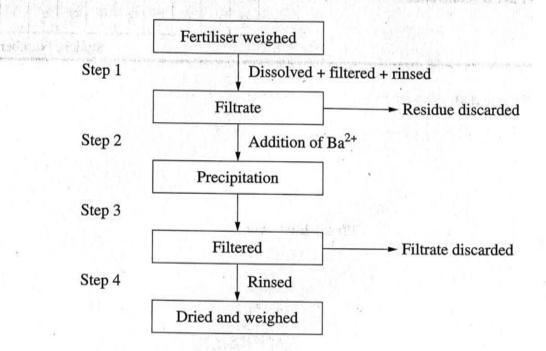
## 2010 HSC Chemistry

## **Band 2/3** Sample 3

## Question 29 (6 marks)

The flowchart shown outlines the process used to determine the amount of sulfate present in a sample of lawn fertiliser. hereite in the state of the sta



What assumptions were made and how do these affect the validity of this process? (a) 3 This experiment is not valid as running needs to be mored is distillation water, to ensure no residues ane left is the fultrate. To ensure vadility, this process needs to be done at least three times and average out the results. Some of the residue mentioned after step 1 makes this experiment invalid, because of the residue being discarded. This can affect the overall result.

(b) It was found that 4.25 g had a sulfate content of 35%.

3

What is the mass of the dried precipitate at Step 4? Include a chemical equation in your answer.

Ba Cl (aq.) + SDA 2-co	19.)	Basoq ca	2) + CI-caq)	
	+ 16×4) =	96.07		
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