

CH201 Organic Chemistry		Marking Rubric		Experiment: <i>Amino Acids</i>
Research Facet	Report components	Unsatisfactory Incomplete and not fully accurate or comprehensive	Satisfactory Complete, accurate and comprehensive	Highly satisfactory Complete, accurate, comprehensive, <i>and</i> innovative
<i>Embark and Clarify</i> (20 marks)	Pre-Lab (15 mks)	<input type="checkbox"/> Incomplete or major errors	<input type="checkbox"/> Pre-lab complete but not fully accurate	<input type="checkbox"/> Complete and accurate
	Title (1 mk)	<input type="checkbox"/> No or incorrect title	<input type="checkbox"/> Reproduces given title	<input type="checkbox"/> Rephrased title
<i>Find and Generate</i> (6 marks)	Aim (1 mk)	<input type="checkbox"/> Misses the purpose or not stated	<input type="checkbox"/> Aim stated but does not accurate	<input type="checkbox"/> Rephrased, clear and concise
	Introduction (3 mks)	<input type="checkbox"/> Reproduces the given introduction.	<input type="checkbox"/> Paraphrased introduction	<input type="checkbox"/> Fine-tuned, clear, concise
<i>Evaluate and Reflect</i> (30 marks)	Procedure (4 mks)	<input type="checkbox"/> Reproduced procedure	<input type="checkbox"/> reproduces supplied procedure	<input type="checkbox"/> Fine-tuned, clear and concise.
	Data (2mks)	<input type="checkbox"/> Does not insert chromatography data	<input type="checkbox"/> Includes a chromatography data which is not clear	<input type="checkbox"/> Includes a clear chromatography
<i>Analyze and Synthesize</i> (26 marks)	Calculation (20 mks)	<input type="checkbox"/> Rf values calculated incorrectly.	<input type="checkbox"/> Rf values correctly calculated for some amino acids.	<input type="checkbox"/> Rf values correctly calculated for all amino acids and the unknowns.
	Colors of spots identified (10 mks)	<input type="checkbox"/> Colors of spots not given.	<input type="checkbox"/> Colors of spots given but not for all amino acids.	<input type="checkbox"/> Colors of spots given for both unknown and the known amino acids.
<i>Analyze and Synthesize</i> (26 marks)	Data analysis and comparison (6 mks)	<input type="checkbox"/> Poor explanation of data.	<input type="checkbox"/> Reasonable explanation of data.	<input type="checkbox"/> Full and accurate justification of all data.
	Identification of unknowns (2 mks)	<input type="checkbox"/> Unable to identify the unknown amino acids.	<input type="checkbox"/> Attempt to identify the unknown amino acids.	<input type="checkbox"/> Identifies the unknowns correctly.
	Post-Lab question (18 mks)	<input type="checkbox"/> Attempts the question but mostly incorrect.	<input type="checkbox"/> Answer the question with some correct answers.	<input type="checkbox"/> Question correctly answered.

<p><i>Communicate and Apply Ethically</i></p> <p>(12 marks)</p>	<p>Citations (3 mk)</p>	<input type="checkbox"/> Not all sources cited (manual, texts, other students)	<input type="checkbox"/> The procedure and references are all cited but some format errors	<input type="checkbox"/> All references cited with no errors
	<p>Text reproduction (3 mk)</p>	<input type="checkbox"/> Font and spacing inconsistent. <input type="checkbox"/> Table not labelled.	<input type="checkbox"/> Font and spacing are consistent. <input type="checkbox"/> Table is labelled but not completely correct.	<input type="checkbox"/> Font and spacing are consistent. <input type="checkbox"/> Table correctly labelled.
	<p>Report clarity and argument (3 mk)</p>	<input type="checkbox"/> Arguments are not easily traceable/ clear	<input type="checkbox"/> Arguments are traceable but not always clear to follow.	<input type="checkbox"/> Arguments are presented clearly. <input type="checkbox"/> Easy to read.
	<p>Grammar and spelling (3 mk)</p>	<input type="checkbox"/> Typo-graphical and grammatical errors	<input type="checkbox"/> Some incidence of typo-graphical and grammatical errors	<input type="checkbox"/> No errors
<p><i>Organize and Manage</i></p> <p>(6 marks)</p>	<p>Structure of report (3 mk)</p>	<input type="checkbox"/> Required structure not used.	<input type="checkbox"/> Title, aims, method, results and discussion are evident.	<input type="checkbox"/> Structure correct, highly coherent.
	<p>Data representation (2 mk)</p>	<input type="checkbox"/> Not tabulated appropriately	<input type="checkbox"/> Data appropriately tabulated without units	<input type="checkbox"/> Appropriately tabulated
	<p>Management (1 mk)</p>	<input type="checkbox"/> Late < 2 days	<input type="checkbox"/> Submitted within the same day	<input type="checkbox"/> Submitted on time during class

Total= /100
