

F324: Rings, Polymers & Analysis

4.3.1 – Chromatography MARK SCHEME

1.	(i) adsorption ✓ <i>ALLOW</i> partition OR adsorption <i>IGNORE</i> solubility OR desorption <i>DO NOT ALLOW</i> absorption	1	[4]
	(ii) measure how far each spot travels relative to the solvent front or calculate the R_f value ✓ compare R_f values to those for known amino acids ✓ <i>ALLOW</i> compare R_f values to database <i>ALLOW</i> compare to known amino acids <i>DO NOT ALLOW</i> retention times for first mark, but the 2nd mark would be available as ✓ ECF <i>ALLOW</i> alternative approach: on the same plate compare position of spots ✓ with known amino acids ✓	2	
	(iii) (amino acids won't separate because) similar compounds have similar R_f (values) ✓ <i>ALLOW</i> spots often overlap OR don't (fully) separate <i>ALLOW</i> they have similar R_f (values) or similar adsorptions or similar retention times ECF to (ii)	1	
2.	(i) one amide link shown correctly (1) glycine and phenylalanine parts shown correctly (1) proline linked correctly (1)	3	[7]
	(ii) 6 (1)	1	
	(iii) gas/liquid chromatograph separates the tripeptides (1) mass spectrometer produces a distinctive fragmentation pattern (1) identification by computer using a spectral database (1)	3	
3.	(a) R_f value is distance moved by a component/spot/solute divided by distance moved by solvent. (1) Retention time is the time between injection and emergence (or detection) of a component. (1)	2	

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