

# F324: Rings, Polymers & Analysis

## 4.3.1 – Chromatography MARK SCHEME

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

# F324 2014 Mark Scheme

**Michael Seilmaier**



**F324 2014 Mark Scheme:**

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