

CHROMATOGRAPHY EXPERIMENTAL MISTAKES

Paper: 1C
Question: 4(a)

Example 1

Your mark

(a) Explain two mistakes the student made when setting up his experiment.

(4)

1. The student used ink to draw the baseline, instead of using an insoluble solid such as a graphite pencil to mark it.
2. The student added too much solvent, because it is above the base line. This means that the different inks may dissolve in the solvent.

Example 2

Your mark

(a) Explain two mistakes the student made when setting up his experiment.

(4)

1. The starting level of the four different ink dots is below the water meaning the ink will not rise. To be done correctly they should be 1-2 cm above the waterline.
2. The student has drawn the baseline in ink meaning that it will mix with and contaminate the inks that they want to use (A, B, C, D). This line should be drawn in pencil.

Example 3

Your mark

(a) Explain two mistakes the student made when setting up his experiment.

(4)

1. The baseline should not be drawn in ink it should be drawn in pencil as it will interfere with the results.
2. There should be a cover on top of the apparatus.