

7Ed Chromatography

4 a Black ink contains blue, purple and red dye; brown ink contains yellow and red dye; red ink contains red and yellow dye; green ink contains blue and yellow dye; blue ink contains blue and purple dye; orange ink contains yellow and red dye.

b red

5 The solvent carries the substances at different speeds so they are spread out.

7 a tartrazine, carotene, natural orange

b Orange drink 3 because the chromatogram shows that it does not contain any tartrazine.

8 Any two suitable examples, such as: forensic analysis, testing for banned drugs, water analysis, food analysis.