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Thin layer chromatography questions and answers pdf answers

Which is not Requirement of mobile phase? The best separation occurs when the difference between the distances travelled by the compounds is greatest. Nature of the adsorbent B. 10Å 10 cm C. Which is not factor for choosing adsorbent ? Recall the definition of Rf. Since the same TLC plate was used, the denominator for both compound A and B will be the same (the total distance travelled by solvent alone is the same for a TLC plate). It is very costly. 5Å 5 cm 5. Continue on and read about food dyes. A. Ascending paper chromatography B. Descending paper chromatography C. Radial paper chromatography D. Ascending & descending chromatography 27. The m.p. is flow by A. A and B 14. After setting up the apparatus the student forgets to place a lid on the TLC jar. Which of the suspected components is the most polar? 7 minutes 10. Travels slow B. To determination of moisture. Chromatography cannot be used to separate delicate products. One of those factors is polarity: therefore, TLC can used to determine polarity of substances. C 6.A 7. Number of components in the mixture II. Mixtures are placed on the TLC plate (stationary phase), which is then transferred to a jar containing the solvent. It should be not toxic. Thus, if you are not sure content located on or linked-to by the Website infringes your copyright, you should consider first contacting an attorney. Identification of drug. To check this, the mixture was analyzed by thin layer chromatography. The question states that the Rf value is 2. Please be advised that you will be liable for damages (including costs and attorneys' fees) if you materially misrepresent that a product or activity is infringing your copyrights. 7 mm D. Are there other components in the sample? In this experiment a nonpolar solvent was used with a polar stationary phase. C 27. Partition B. This value indicates that the solute compounds were able to travel farther on the TLC plate than the solvent (mobile phase). 9. B 24. Which is not TLC ? 16. Hair action B. The least polar? What phrase is wrong about TLC? The stationary phase in thin-layer chromatography is: - (Gate1993) A. Liquid held between glass B. Glass plate C. Silica gel D. None of the 12 above. It also indicates that the solvent traveled a distance of 4cm on the plate. 30 minutes C. TLC is not useful for identifying substances. How long does it take to dry the TLC plate? Compounds A and B are found in a mixture. D 16. 130-149 CA⁺ D. In which of the following types of paper, chromatography moves the mobile phase horizontally on a circular sheet of paper? 10 mm 7. Green colour 4. A and B D. Neomycin sulfate can be isolated on the activated compound. Send your complaint to our designated agent at: Charles Cohn Varsity Tutors LLC 101 S. Components with the most affinity to stationary phases is A. An open system will allow the solvent to evaporate from the TLC plate and reduce the amount of solvent that travels through the plate. I. A. Solid or liquid B. Liquid or gas C. Solid only D. Liquid only 21. In chromatography, the stationary phase can be supported on a solid. What method is used for suspension spraying? Chromatography is a physical method used to separate and analyze _____ A. Simple mixtures B. Complex mixtures C. Viscous mixtures D. Metals 20. A. Solid or liquid B. Liquid or gas C. Gas only D. Liquid only 22. In thin layer chromatography, the stationary phase is made of _____ Solid, gas 26. With the help of the community we can continue to improve our educational resources. In the iodine chamber, what stain of color do you see? The size of half plate is A. The solvent travels through the plate and carries components of the mixture along with it. B 4. Yes Varsity takes action in response to a Notice of Infringement, will make a bona fide attempt to contact the party that made such content available le ritimrep arap adacilpA. 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C 23. Mistal option with responses on TLC 1. 5 mm B. What is not a TLC application? The fine layer chromatography is A. chromatographic of participation B. eligic mobility of iatic iatic species Adsorption chromatography D. None of the above 1. It takes less time. Chemical nature D. Twenty-one. None of the 18 above. Components with least affinity towards stationary phases is A. It should be readily available. The solvent in the solution will evaporate, but it is insignificant and irrelevant to the data collected on the TLC plate. Which of the following can be determined from thin-layer chromatography results? Temperature. A 5. Component polarity Possible answers: Correct answer: I and III Explanation: Thin-layer chromatography (TLC) is used to separate components into a mixture. B 20. To separate them effectively, the compounds must have travelled different distances along the plate. Dimensional Teo D. The solubility of adsorbent C. in the quantitative radioactive material of T.L.C can be studied by (Gate 1997) A. Visual comparison B. Gravimetry C. Density meter D. Ginger counter 11. In TLC, initially the sample is A. in contact contact with mobile phase B. Not in contact with the mobile phase C. coated at the level of mobile phase D. coated below the level of mobile phase 13. The results were as follows: Answer the following questions and then verify your answers. What is the RF value of the unidentified component? Yellow colour D. 150-160 C Ä⁺ 8. 1. A 18.B 19. D. RF values were calculated for both compounds. Sandwich Method B. D 9. Introduction Background Prelab Postlab Experiment A new student plans to use thin-layer chromatography (TLC) for his research project. Red, 20E 20 cm D. The capillary diameter is A. The distance travelled depends on several factors. Quick travel C. What temperature is required for plate activation? In chromatography, which of the following options can the mobile phase be made of? Color brown. 10 minutes D. The Rf cannot be used to purify volumes. A 26. DIPPING C. The relative distances traveled by each component can be used for separation and identification. 2. Propagation 6. Your infraction notice can be to the part that puts the content or third parties as chillingeffects.org. Participation coefficient C. This means that Rf is always less than one because the Rf numerator is always less than the denominator. A. True B. False 24. Pour B. This means that the numerator is equal to the value of Rf. None of the 19. What is the principle of FTA? B 10. D 11. Hanley RD, Suite 300 St. Louis, Mo 63 105 or Fill in the following form: What of the following options can you better explain your bad results? Possible answers: The open system avoids the evaporation of the solvent in the TLC plate the open system evaporates the solvent in the TLC plate the open system evaporates the solvent in the solution the open system avoids the evaporation of the solvent in the solution correct answer: the system Open evaporates the solvent in the TLC explanation plate: TLC is the laboratory technique usually used to separate the components from a mixture. It is important to put a lid on the bottle, since the solvent will be a volume. 4. What of the following Rf values sets would reflect the greatest separation between A and B? Possible answers: Correct answer: Explanation: compounds A and B are in the same mixture; Therefore, you will separate using the same TLC plate. C It was suspected that a certain mixture contained three components: X, and Z. A 17. We assume that the denominator is 1 for both compounds. Depending on its properties, each component is dragged to different distances in the plate. A. He gets bad results after executing the TLC experiment. B 22. Spray D. 120-130 CÄ ,⁺ C. If we compare the Rf values between the same we realize that the Rf values of 0.4 and 0.2 will give the greatest difference between the distances traveled by the compounds A and B (the difference therefore, it will have the best separation ³. If you have encountered a problem with this question, please stop know. A combination of paper chromatography and electrophoresis involves A. partition chromatography B. electrical mobility of the ionic species C. both (1) and (2) D. none of these 28. Which of the following types of chromatography involves the separation of substances in a mixture over a 0.2mm thick layer of an adsorbent? If you believe that content available by means of the Website (as defined in our Terms of Service) infringes one or more of your copyrights, please notify us by providing a written notice (ÄÄÄÄInfringement NoticeÄÄÄÄ) containing the information described below to the designated agent listed below. A. Gas liquid B. Column C. Thin layer D. Paper 23. What can you conclude about this experiment? Possible Answers: There are multiple components in the mixture The reported data does not seem valid The component travelled a distance of 8cm The solvent is not volatile Correct answer: The reported data does not seem valid Explanation: To solve this problem we need to recall the definition of Rf. The solvent is typically the most mobile substance on a TLC plate; therefore, it travels the farthest distance. Which suspected components (X, Y or Z) are present in the sample? Components are separated on a TLC plate because each component travels a different distance. Since this is greater than 1, the results donÄÄÄÄ seem valid. B 25. A. The identity of the components III. Other techniques such as NMR and IR spectroscopy are useful for identifying individual components. Absorption C. C.

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