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**Liquid Chromatography Lab Kool Aid** precipitation and chromatography. There are different types of chromatography, such as paper, thin-layer, gas, and liquid-column. We have already worked with paper chromatography, and during this lab, you will utilize liquid-column

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chromatography to separate the components of Grape Kool-Aid®. BACKGROUND Chromatography is an important ...

## **DATES: LAB: Liquid Chromatography Separation of Grape Kool ...**

Liquid Chromatography Lab Kool Aid  
Liquid Chromatography Kyle Miller

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## Answers

October 30, 2006 1 Purpose The purpose of this experiment is to use liquid chromatography to separate the component substances that are contained in grape-flavored Kool-Aid. 2 Procedure There are two parts to this lab.

## **Liquid Chromatography Lab Kool Aid**

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**Answers**  
Liquid Chromatography Lab Kool Aid In the first part of this experiment, liquid chromatography is used to separate the substances that are present in grape-flavored Kool-Aid ®. First, the dyes responsible for the purple color, FD&C Blue #1 and Red #40 are separated.



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## **Liquid Chromatography Lab Kool Aid Answers**

Liquid Chromatography Kyle Miller  
October 30, 2006 1 Purpose The purpose of this experiment is to use liquid chromatography to separate the component substances that are contained in grape-flavored Kool-Aid. 2

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Procedure There are two parts to this lab. In part one, the two dyes in the drink are separated using 10 mL of 70% isopropanol as the ...

## **Liquid Chromatography - Kyle M**

In the first part of this experiment, liquid chromatography is used to separate the substances that are present in grape-

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flavored Kool-Aid ®. First, the dyes responsible for the purple color, FD&C Blue #1 and Red #40 are separated. Miniature liquid chromatography columns called Sep-Pak C18 columns are used for the separation.

**Liquid Chromatography - A. Sedano  
- AP Chemistry Laboratories**

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The other components of Kool-Aid®, the flavorings and citric acid, will be separated in a second experiment. Chromatography is an important analytical tool that is used to separate the components of a mixture. Liquid chromatography is one type of chromatography that is enormously useful in research and in industry.

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## **inde**

Table 2: Food Dye Characteristics obtained from chromatography experiment Kool-Aid Flavor # of Dyes Color of Each Dye Distance each Dye Moved (cm) Distance Solvent Moved (cm) R f of each Dye Name of Dye Grape

2	1	Red	2	Blue	2.62	2.90	9.06	2.89	3.20
---	---	-----	---	------	------	------	------	------	------

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Red #40 Blue #1 Orange 2 1 Red 2  
Yellow 1.90 2.09 9.06.210.231 Red #40  
Yellow #5 Unknown (watermelon) 1 1  
Red 2 3 1.60 9.06.177 Red #40  
Calculations ...

## **paper chromatography lab separation of kool-aid.docx ...**

-Container for liquid waste, i.e. leftover

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liquids. For instructions on the lab, go to personal page: "B. Procedure" (last 3 pages of the lab). III. SUMMARY: As you have discovered, Kool-Aid is composed of several substances, including acids, dyes and flavoring. These substances will be soluble depending on their own

## **High Performance Liquid**

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## **Chromatography (HPLC)**

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Kool Chromatography continued 4 21

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## Answers

Flinn Scientific Highlights Kool Chromatography Worksheet Discussion Questions 1. Describe what happened in this demonstration. 2. The Sep-Pak C18 cartridge is very non-polar. Rank the three solutions used to separate the Kool-Aid, water, 5% isopropyl

## **Kool Chromatography - Flinn**

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Therefore, there is solid, liquid, and gas chromatography. In this experiment, you will use liquid chromatography to separate the dyes, FD&C Blue and FD&C Red that are found in grape-flavored Kool-Aid®, from the other ingredients in the dry drink product. You will use a special column, called a C18 Sep-Pac® for the experiment.

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## **Liquid Chromatography - Vernier**

For more information, visit <http://www.bio-rad.com/yt/2/biotech-lab-textbook>.

This video demonstrates the separation of Kool-Aid drink mix pigments based on ...

## **Kool-Aid Chromatography - YouTube**

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Kool-Aid Lab Separation of components of Kool-Aid by liquid chromatography  
Introduction Liquid chromatography (LC) is an analytical technique chemists use to separate mixtures into individual components. Simple liquid chromatography consists of a column that holds the stationary phase (Figure 1) which is in equilibrium with a solvent,

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the ...

## **Grape Kool Aid Chromatography - Scribnotes**

In the liquid chromatography column used in this experiment, the solid has a C18 hydrocarbon bonded to it. Would a C18 hydrocarbon be polar or nonpolar? Explain. Below are the typical data for

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this experiment. 1 mL of a Kool-Aid solution was loaded on a Sep-Pak C18 Column.

## **Liquid Chromatography Lab - PHDessay.com**

Grape Kool-Aid is resolved into the blue and red food dyes using chromatography. A particle level



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explanation is given following an analysis of the success o...

## **Kool-Aid Chromatography Separation - YouTube**

Mikail Worbe Dr. Fay Chem 111 Lab 11  
Report - Liquid Chromatography Primary  
Objective The primary objective of this  
lab was to conduct an isocratic, liquid -

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chromatographic separation using liquid chromatography to separate two dyes, FD&C Blue and FD&C Red, from the other ingredients in grape flavored Kool-Aid. A step gradient, liquid chromatographic separation was also conducted to ...

## **Lab 11 Report - Liquid**

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Answers

## **Chromatography.docx - Mikail Worbe ...**

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## **Liquid Chromatography Lab Kool Aid Answers**

Chromatography of Food Dye. Today in lab I will separate mixtures of compounds into their constituent components using chromatography paper and an eluting solvent of salt

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water as well as rubbing alcohol.

Materials and Methods: In this lab using the bag of FD&C dyes, bag of M&M's, 2 packs of Kool-Aid, and a pack of Clover Valley store brand food coloring I am going to place a drop of each ...

## **Results Page 9 About Liquid Chromatography Kool Aid Free ...**

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Digication ePortfolio :: General Chemistry (Alexander Antonopoulos) by Alexander P. Antonopoulos at Salve Regina University. Introduction: The goal of this experiment is to learn how to properly separate multiple components that are in a solution via the process of liquid chromatography. (that is, running the components through a non-polar

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matrix, while using a slightly polar solution, called ...

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