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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 chromatography to separate the

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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
October 30, 2006 1 Purpose The purpose

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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.

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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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Answers

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 Procedure There are two parts to this

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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-flavored Kool-Aid ®. First, the dyes

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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

The other components of Kool-Aid®, the

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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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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	0.289	0.320
Red #40	Blue #1	Orange 2	1 Red 2			

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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 liquids. For instructions on the lab, go to

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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 Chromatography (HPLC)

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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

Therefore, there is solid, liquid, and gas

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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

Kool-Aid Lab Separation of components

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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,
the ...

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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 this experiment. 1 mL of a Kool-Aid

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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 explanation is given following an

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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 - chromatographic separation using liquid

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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 Chromatography.docx - Mikail

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Chromotography 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 water as well as rubbing alcohol.

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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 ...

Digication ePortfolio :: General

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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 matrix, while using a slightly polar

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solution, called ...

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