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Laboratory Report 1805

Introduction

This report documents the analysis of several test samples composed of various combinations of oils, waxes, and alcohols. Using sophisticated equipment, we measured an array of properties, aiming to understand the interactions and behaviors within these mixtures. The tests were carried out during the third quarter of the year using cutting-edge technologies in our lab.

Materials and Methods

Analysis Equipment & Methodology

Measurement: 7.3 M

Liquid Chromatograph LC-400

Measurement: 125.4 µg/mL

UV-Vis Spectrophotometer UV-2600

Observation: Absorbance at 1.8 Abs, indicating a significant interaction between the compounds.

pH Meter PH-700

Measurement: 5.6 pH

Conductivity Meter CM-215

Measurement: 890 µS/cm

Centrifuge X100
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Measurement: 10,500 RPM

Viscometer VS-300

Distractions and Side Notes

Results

Tables of Measurements and Observations

Table 1: Titration and Chromatography

Equipment	Samples	Measurement (Unit)
Titrator T-905	Coconut Oil, Cetyl Alcohol, Vitamin E	7.3 M
Liquid Chromatograph LC-400	Coconut Oil, Gum	125.4 µg/mL

Table 2: Spectroscopy, pH, Conductivity

Equipment	Samples	Value	Unit
UV-Vis Spectrophotometer UV-2600	Jojoba Oil, Gum, Glycerin	1.8	Abs
pH Meter PH-700	Jojoba Oil, Beeswax	5.6	pH
Conductivity Meter CM-215	Jojoba Oil, Beeswax, Vitamin E	890.0	µS/cm

Table 3: Centrifuge and Viscosity

Equipment	Samples	Measurement (Unit)
Centrifuge X100	Coconut Oil, Cetyl Alcohol	10,500 RPM
Viscometer VS-300	Almond Oil	7,536.56 cP
Viscometer VS-300	Jojoba Oil, Gum, Glycerin	1,802.56 cP

Discussion

The studies present insights into the properties of oil-based mixtures. Notably, the coconut oil-based samples showed extensive emulsifying capabilities. The high rotational stability noted in the centrifuge is likely causing the enhancement

of structural attributes, while the subtle ionic interactions portray stability in the stored energy, as seen in conductivity readings.

Additionally, the viscosity comparisons between almond oil and jojoba oil mixtures illustrate the impact of molecular interactions, which may inform future formulations targeting specific textural qualities.

Conclusion

The report underscores the significance of comprehensive analysis in understanding complex mixtures used in skincare and cosmetic formulations. The recorded parameters provide critical data that could guide product development. Further exposure to controlled environmental factors may elucidate additional properties.

Disclaimer: Ensure all lab apparatus are calibrated before reproduction of these results.

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