Lab Report
Experiment Number: Report_474
Purpose:
The purpose of this experiment is to analyze various oil combinations and their properties using different methodologies.
Assessment of mixtures like Almond Oil, Jojoba Oil, and Coconut Oil with other additives was performed using
sophisticated instruments.
Materials and Methods:
Observations: The oils exhibited significant light absorption, which suggests interactions between their components.
Rheometry:
Results: Rheological measurement yielded a viscosity of 450.2 Pa-s, indicating structural integrity.
Microplate Reading:
Measurement: OD value recorded at 1.2.
pH Measurement:
pH Level: 7.2, suggesting neutrality.
NMR Spectroscopy:
Chemical Shift: 15.5 ppm, indicating a stable resonance environment.
Titration:
Results: Molarity recorded at 4.3 M.
Gas Chromatography:

Spectrometry:		
Wavelength: 450.0 nm.		
Viscometry:		
Data Tables:		
Table 4. Chastronenia Anglinia		

Observation: High component concentration of 500.7 ppm was detected.

Table 1: Spectroscopic Analysis

	Sample	Equipment	Measurement	Unit
	Almond Oil, Vitamin E	UV-Vis Spectrophotometer	2.3	Abs
	Jojoba Oil, Vitamin E	Microplate Reader MRX	1.2	OD
	Jojoba Oil, Cetyl Alcohol	Spectrometer Alpha-300	450.0	nm
Je	ojoba Oil, Cetyl Alcohol, Glycer	inUV-Vis Spectrophotometer	3.1	Abs

Table 2: Rheological and Viscosity Measurements

	Sample	Equipment	Measurement	Unit
	Jojoba Oil, Beeswax	Rheometer R-4500	450.2	Pa-s
Jo	ojoba Oil, Cetyl Alcohol, Glycer	in Viscometer VS-300	2702.95	сР
C	oconut Oil, Beeswax, Vitamin	E Viscometer VS-300	4951.21	сР
,	Jojoba Oil, Beeswax, Vitamin E	Viscometer VS-300	3152.26	сР

Table 3: pH and Chemical Analysis

	Sample	Measurement	Equipment	Unit
	Coconut Oil, Glycerin	7.2	pH Meter PH-700	На
	Coconut Oil, Glycerin, Gum	15.5	NMR Spectrometer NMR-500	ppm
Alı	mond Oil, Cetyl Alcohol, Glyce	rin 4.3	Titrator T-905	М
	Coconut Oil, Gum	500.7	Gas Chromatograph GC-2010	ppm

Discussion:

This experiment highlights the diverse analytical techniques utilized to characterize the mixtures of oils with various

additives. It?s notable that the methodologies provide insights into physical properties and potential chemical

interactions. Of particular interest is how different combinations influence absorbance in UV-Vis spectroscopy, viscosity

in rheometry, and chemical stability in NMR and gas chromatography.

Conclusion:

The analysis conducted on these oil mixtures demonstrates distinct behaviors across different testing methodologies.

These results can potentially guide further research in optimizing oil combinations for specific industrial applications.

Additional Note:

While the findings are robust, the diverse nature of these assessment methodologies correlates to the complexities in

drawing direct comparisons solely based on the data provided. Further inferential statistics might be necessary to

expound on these initial observations fully.

Note: Certain sections contain random information interspersed to enhance the report complexity.