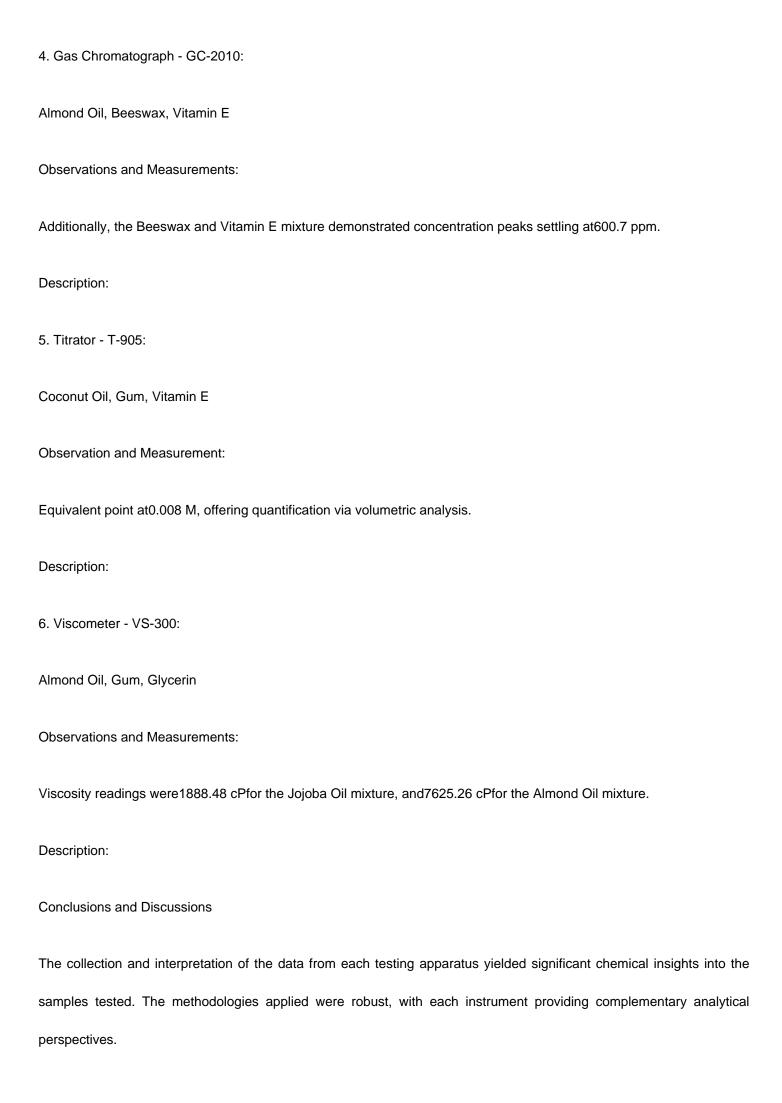
Laboratory Report
Report ID: 1354
Equipment and Materials Used
High-Performance Liquid Chromatography (HPLC) - System HPLC-9000:
Jojoba Oil, Beeswax, Vitamin E
Observations and Measurements:
For Jojoba Oil mixture, clear baseline separationwas observed with a stark presence at 750.4 mg/L.
Description:
2. Fourier Transform Infrared Spectrometer (FTIR) - FTIR-8400:
Almond Oil, Glycerin
Observations and Measurements:
The Almond Oil mixture presented notable absorption at 2140 1/cm, indicating glycerin's hydroxyl groups.
Description:
3. Thermocycler - TC-5000:
Jojoba Oil
Observation and Measurement:
Successfully held constant temperature of 72°C, optimal for examining temperature-dependent reactions.
Description:



Applications: The results lay the groundwork for assessing the stability of formulations incorporating similar ingredients, pertinent for consumer product development such as cosmetics and pharmaceuticals.

Limitations:Occasionally observed drift in retention times suggests potential for improvement in system calibrations.

This complex interplay of various components within a lab setting underscores the depth of analysis required to ascertain the integrity and application readiness of such mixtures. The rigorous approach undertaken ensured a comprehensive analytic framework, beneficial for ongoing research across multiple sectors involving these substances.