Hello Brigitte,

Thank you for your email to Product Support. We apologize for the delayed response. We are happy to assist you with your question.

Essential oils are steam distilled and radiation by-products (among other things), if present, would not transfer from the plant material to the essential oil due to lack of solubility (for they cannot “dissolve” in the steam) and they would remain in the plant material.

Young Living® uses its own internal labs, in addition to third-party audits, to verify that Young Living purity and potency standards are met. Each batch of essential oil is sent through six rigorous tests and compared to established quality benchmarks:

• Gas Chromatograph—Measures the percentage of constituents (plant chemicals) in the oil.

• Mass Spectrometer—Identifies the names of each constituent in the oil.

• Refractive Index—Measures the density of the oil using a concentrated beam of light.

• Specific Gravity—Measures how heavy the oil is as compared to water.

• Flash Point—Ignites the oil and tests it against standard flash temperatures.

• Optical Rotation—Measures the molecular structure of the oil.

Once the tests are complete, the results are compared to the vast library of information Young Living has amassed over 20 years. This library of oil data is unmatched in the industry. With the recorded data, new oils can be compared to past samples, allowing for a consistent product. If the incoming oils do not meet the established profile, they are rejected and not allowed to be bottled as a Young Living product.

We hope this information is helpful.

If you have additional questions or concerns, or if we can assist you in any way, please feel free to contact us via telephone at 1-800-371-3515, fax at 866-203-5666, email at productsupport@youngliving.com, or our Live Help feature at [www.youngliving.com](http://www.youngliving.com).

Sincerely,

Gillian

Product Support

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