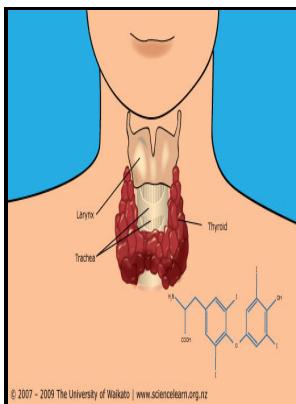


# Radioactive isotopes in biochemistry

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## 33 Common Radioactive Isotopes Used in Medicine

As organic and physical chemistry erected an imposing body of theory in the 19th century, the needs of the physician, the pharmacist, and the agriculturalist provided an ever-present stimulus for the application of the new discoveries of chemistry to various urgent practical problems. Radiation is an expenditure and energy propagation through space or a substance in the form of waves or particles.

### Isotope Definition and Examples in Chemistry

Cobalt-60 is also used to sterilize medical instruments. This naturally occurring isotope has been shown to vary linearly with depth. When you get right down to it, all food contains a small amount of radioactivity.

### 11.5: Uses of Radioactive Isotopes

In liquid chromatography-mass spectrometry , the GC is replaced with a liquid chromatograph.

### 11.5: Uses of Radioactive Isotopes

Use of <sup>13</sup>C labeling and NMR spectroscopy in metabolic flux analysis.

## DISADVANTAGES OF RADIOISOTOPES IN NUCLEAR MEDICINE

In addition to , using techniques will allow a more detailed view of the distribution of the isotopomers. In protein recombinant, manipulated proteins are produced in large quantities and isotope labeling is a tool to test for relevant proteins. Radioactive tracers are also used to study metabolism in humans and experimental animals.

## 33 Common Radioactive Isotopes Used in Medicine

Metabolic engineering principles and methodologies. Cosmogenic Nuclides There are a variety of nuclides including cosmogenic nuclides, most notably tritium H-3 , beryllium-7 be-7 , carbon-14 C-14 , and sodium-22 Na-22.

## **Applications of Stable Isotopes in Biochemistry**

Biochemistry, study of the chemical substances and processes that occur in , , and microorganisms and of the changes they undergo during development and life.

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