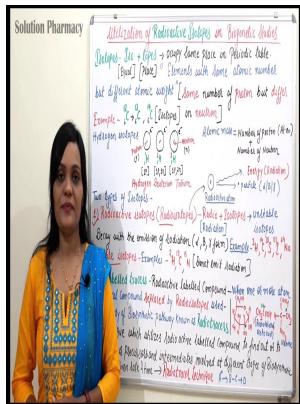


# Radioactive isotopes in biochemistry

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## RADIOISOTOPES IN BIOCHEMISTRY

The dental work can expose your mouth to 1000 millirem per year per cap, which comes out to two and a half times the average whole body annual exposure from natural sources, plus a few medical x-rays. Cell damage can occur in the form of chromosomal damage, mutations, slowing of cell division and loss of ability to produce.

### Examples of Radioisotopes in Biology

Absorption and scattering of radiation in matter. A 127 keV gamma ray is also emitted. Because every isotopomer contributes to exactly one peak in the MS spectrum, the percentage value can then be calculated for each peak, yielding the mass isotopomer fraction.

### Examples of Radioisotopes in Biology

If a 50% labeled and 50% unlabeled metabolite is split in the manner shown, the expected percent of each outcome can be found. A few naturally occurring isotopes and all of the man-made isotopes are unstable. Most healthy cells will be able to recover from the effects of radiation.

### 33 Common Radioactive Isotopes Used in Medicine

The thyroid gland in the neck is one of the few places in the body with a significant concentration of iodine.

### 33 Common Radioactive Isotopes Used in Medicine

In his analysis of fermentation, putrefaction, and , Liebig was less fortunate. Photosynthesis was another biological phenomenon that occupied the attention of the chemists of the late 18th century.

## DISADVANTAGES OF RADIOISOTOPES IN NUCLEAR MEDICINE

The smallest part of an element is called an atom. For example, the isotopes of hydrogen may be written: 1 1H, 2 1H, 3 1H. Radiation is an expenditure and energy propagation through space or a substance in the form of waves or particles.

## **DISADVANTAGES OF RADIOISOTOPES IN NUCLEAR MEDICINE**

Scientists were also able to use radiocarbon dating to show that the age of a mummified body found in the ice of the Alps was 5,300 y. Recall that tritium is a radioactive isotope of hydrogen. You are exposed to every day, often from the foods you eat and the products you use.

## Related Books

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