

BIODEGRADATION OF NITROAROMATIC COMPOUNDS%0A

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Nitroaromatic Compounds, From Synthesis to Biodegradation

Summary: Nitroaromatic compounds are relatively rare in nature and have been introduced into the environment mainly by human activities. This important class of industrial chemicals is widely used in the synthesis of many diverse products, including dyes, polymers, pesticides, and explosives.

Nitroaromatic Compounds, from Synthesis to Biodegradation

compounds (205), and the biodegradation of nitroaromatic compounds (132, 135, 180, 181, 188). Here we present an integrated review of the chemical and biological syntheses of nitroaromatic compounds and our current understanding of bacterial degradation of these toxic and recalcitrant chemicals. SYNTHETIC NITROAROMATIC COMPOUNDS Nitration is the main reaction used to synthesize nitroaromatic

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DEGRADATION OF NITROAROMATIC COMPOUNDS 525 detected in the environment are anthropogenic and released because of their extensive use in the synthesis of dyes, plasticizers, pesticides, and explosives.

Bioremediation of Nitroaromatic Compounds | IntechOpen

When a nitroaromatic compound is exposed to the environment, its biodegradation takes place either by anaerobic route or by aerobic route. Different strategies applied for the degradation of nitroaromatic compounds by bacterial strains are shown in Figure 5.

Biodegradation of Nitroaromatic Compounds: Based in Part ...

Biodegradation of Nitroaromatic Compounds: Based in Part on a Symposium on Biodegradation of Nitroaromatic Compounds Held in Las Vegas, Nevada, May 22-23, 1994 (Environmental Science Research) by Jim C. Spain (1995-05-31) Hardcover 1814

Biodegradation of Nitroaromatic Compounds and Explosives

biodegradation and biotransformation of nitroaromatic compounds and explosives. The invited speakers were asked to critically review recent advances in their areas of expertise and to describe how the basic work has led to practical applications.

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Nitroaromatic compounds are released into the biosphere almost exclusively from anthropogenic sources. Some compounds are produced by incomplete combustion of fossil fuels; others are used as

Biodegradation of nitroaromatic compounds (eBook, 1995 ...

Get this from a library! Biodegradation of nitroaromatic compounds. [Jim C Spain;] -- "The depth of each chapter attests to the qualifications of its authors. Plenty of references, and the presentation format is excellent.

Overall, this is an excellent book for anybody interested **Nitroaromatic Compounds, from Synthesis to Biodegradation ...**

Nitroaromatic compounds are relatively rare in nature and have been introduced into the environment mainly by human activities. This important class of industrial chemicals is widely used in the

Biodegradation of Nitroaromatic Compounds : Jim C. Spain ...

Biodegradation of Nitroaromatic Compounds by Jim C. Spain, 9781475794496, available at Book Depository with free delivery worldwide.

Degradation of nitroaromatic compounds by microorganisms ...

Abstract. Nitroaromatic compounds are abundantly present in nature, but are in most cases highly toxic to living organisms. Several microorganisms, however, are capable of mineralizing or converting these compounds.

Nitroaromatic Compounds, from Synthesis to Biodegradation ...

Summary: Nitroaromatic compounds are relatively rare in nature and have been introduced into the environment mainly by human activities. This important class of industrial chemicals is widely used in the synthesis of many diverse products, including dyes, polymers, pesticides, and explosives. Unfortunately, their extensive use has led to

Mutagenicity of nitroaromatic degradation compounds ...

The mutagenicity of 2,4-dinitrotoluene (2,4-DNT), and 2,6-dinitrotoluene (2,6-DNT), and their related transformation products such as hydroxylamine and amine derivatives, which are formed by *Clostridium acetobutylicum*, were tested in crude cell extracts using *Salmonella typhimurium* TA100.

Biodegradation of Nitroaromatic Compounds : Jim C. Spain ...

During the past five years increased awareness of

environmental contamination by nitroaromatic compounds has led to a dramatic increase in research on their biodegradation.

Biodegradation of Military Explosives RDX and HMX

The biodegradation of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) and octahydro-1,3,5,7-tetrazocine (HMX) and the potential involvement of acetogens in their degradation were studied.