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components in the
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HOEt NH₂, + + Lipase.

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Chiral technology: industrial biocatalysis with standard ...

Biocatalysis.

Biocatalysis has become an established technology for the industrial manufacture of fine chemicals and active pharma. The application of enzymes as catalysts for chemical synthesis, has become a valuable tool for the synthetic

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chemist. Enzymatic transformations carried out by partially purified enzymes or whole-cell catalysts are used for the production of a wide variety of chemicals, from bulk to fine chemicals.

Technology

Chiral Technology
Industrial Biocatalysis
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racemic resolution of
amino acids via the
acylase method is

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regarded as one of the first industrial processes using isolated enzymes (Tanabe, Japan, 1969). Presently, approximately 100 different biotransformations are carried out in industry, mostly

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Biocatalysis also often

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offers the advantage of higher enantiomeric purities than are obtainable with chemical catalysis. For example, the enzymatic reduction of 1-(2-chlorophenyl)ethan-1-one yields the chlorohydrin in 99% ee, whereas asymmetric hydrogenation using two different chiral catalysts achieves 85% and 88% ee.^{6,7,8}

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Biocatalysis for
important reactions in
pharmaceutical
manufacturing such as
amide bond formation,

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chiral primary amines,
chiral keto reduction
and nitrile hydrolysis is
a mature field with
many options.

Biocatalysis: A Pharma Perspective - Adams - 2019 ...

With biocatalysis in its
embryonic years,
cloning, expression and
sequencing technology
was driving a
revolution in the health
care sector, and
biocatalysis – as an

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offshoot of this – was a major beneficiary.

Biocatalysis - How secret should it be? - Chemicals Knowledge

Chiral Technologies is the global market leader in enantioselective chromatography and offers the most extensive portfolio of chiral stationary phases (CSPs) manufactured by

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DAICEL Corporation.
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Global Leader in HPLC, Enantiomers, CSPs | Chiral Technologies

Some of the most
powerful examples of
biocatalytic
applications exploit the
chiral nature of these
catalysts. In fact, the R
and S nomenclature

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commonly used to define the orientation of substituents of a chiral center as popularized by Prelog and others was first described in the context of the products formed by the reduction of prochiral ketones by alcohol dehydrogenases (ADHs).

**Introduction:
Biocatalysis in
Industry | Chemical**

Download Free Chiral Technology Industrial **Reviews**

This review focuses on key publications in the area of industrial biocatalysis (industrial laboratory, pilot, and commercial scale) that appeared in 1999 or 2000. Pharmaceutical industry. The use of biological catalysts in the synthesis of pharmaceutical intermediates, drug metabolites and drug products is now common.

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Industrial Biocatalysis With Standard Fig 2. Chiral Technology Industrial Biocatalysis With Standard

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Technology Industrial
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Technology Industrial
Biocatalysis With
Standard Biocatalysis
has become an
established technology
for the industrial
manufacture of fine
chemicals and active
pharma. The

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application of enzymes
as catalysts for
chemical synthesis,
has become a valuable
tool for the synthetic
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The chiral feature is a
critical factor for the
efficacy and safety of
many therapeutic
agents. At present,
about 57% of marketed
Page 18/27

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drugs are chiral drugs and about 99% of purified natural products are chiral compounds. There has been a tremendous potential of functional microorganisms and biocatalysts derived from them for the bioconversion of synthetic chemicals into drugs with high enantio ...

Synthesizing Chiral Drug Intermediates

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by Biocatalysis ...

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Expanding the scope of
industrial biocatalysis
(pdf, 80 KB) ...

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technology allows you
to make innovations in
chiral pharma, chiral
intermediates, life
sciences, cosmetics,
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environment and
more! For almost 15

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years ChiralVision has designed, developed and scaled-up immobilized enzyme processes for all these markets meeting all technical and economical demands.

ChiralVision

Biocatalysis in emulsions is a well established technology in research laboratories 35,36,37 and is expected to be equally applicable on

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larger scales 38,39,40.
Moreover, solvent-
based processes ...

Industrial biocatalysis today and tomorrow | Nature

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Innovation. BASF has
been running
biocatalytic processes
for more than 50 years.
With our expertise and
long track record in
enzymatic and

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fermentative reactions,
we have developed a
broad and powerful
process using our
proprietary lipase
technology.

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biocatalysis in
chemical syntheses.
Developed chiral
chemical processes,
plus fermentations for
natural products,
enzymes, and

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biocatalysis. • Solved production problems with enzymatic process experienced by an external supplier. Recovered over 3 tons of in-process material critical to launch supply.

**Organic Chemistry,
Biocatalysis,
Fermentation,
Industrial ...**

used as a synthetic route to produce complex molecules in

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industrial fields, such as synthesis of high value-added chemicals and drug intermediates [14, 18, 22, 28, 53, 55, 132, 176, 183, 232].

Further, the bioconversion field has gained more interest for the synthesis of chiral

Synthesizing Chiral Drug Intermediates by Biocatalysis

Aldolases are emerging as powerful and cost

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efficient tools for the industrial synthesis of chiral molecules. They catalyze enantioselective carbon-carbon bond formations, generating up to two chiral centers under mild reaction conditions. Despite their versatility, narrow substrate ranges and enzyme inactivation under synthesis conditions represented major obstacles for large-scale applications

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of aldolases.
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