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described how to
determine the
processes that
inactivate industrial
enzymes using a flow
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biocatalysts in many types of reaction media often has prevented or delayed their implementation for industrial-scale synthesis of fine chemicals and pharmaceuticals.

Consequently, there is great interest in understanding effects of solution conditions on protein

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stability, as well as in
developing strategies
to improve protein
stability in desired
reaction media.

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are being pro-duced
using such genetic
and protein
engineering tools.
Operational
stabilization of
biocatalysts is an
alternative.
Immobilized and
crystallized
biocatalysts are

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engineering the
reaction media can
contribute to
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The stability of the enzyme is very much dependent on the moisture content and, at low contents, T_m (or better T_g for solids) decreases with increasing content (T_g : glass transition temperature). In addition to an improved

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stability, the dry
enzyme is also better
resistant against
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degradation or
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(except gas mediated
inactivations like
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Unfortunately, exploitation of
advantages is often
limited by the low
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are known to be
denatured in the
presence of relatively
small amounts of
polar solvents [2],
and in non-aqueous
media the catalytic

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activity is
significantly
suppressed in
comparison with
their aqueous level
[3]. The problem of
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are in the focus of
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for the development
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for the development
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stabilization is a
central issue of
biotechnology today.
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operational stability
will determine to a
large extent the
viability of the
process, be it new or
faced to compete
with an already
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