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Liquid-liquid
extraction worked
example ~~LEACHING~~
~~SOLID LIQUID~~
~~EXTRACTION~~
~~LESSON 1~~

**Liquid/Liquid
Extraction PTT356**
~~LEC 3: SOLID-
LIQUID~~

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~~EXTRACTION~~

~~(LEACHING)~~

Separating

*Components of a
Mixture by Extraction*

SOLID-LIQUID

EXTRACTION

LEACHING SOLID

LIQUID

EXTRACTION

LESSON 2 Tenova

Bateman

Technologies-

Solvent Extraction

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Plant Liquid-Liquid
Extraction Material
Balance PTT356:

LEC 2 LIQUID-
LIQUID

EXTRACTION

Factors influencing
the solid liquid
extraction (leaching)

Mod-01 Lec-25

Lecture-25 **Steam
distillation - Lemon
essential oil ?**

Solid Phase

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Extraction process -

~~AFFINISEP~~

~~Partitioning Between~~

~~Liquid Phases~~

Extraction vs

Microextraction

~~Simplified Solid~~

~~Phase Extraction~~

~~(SPE) with Strata-X A-~~

Level Pre-Lab Video

for Using a

Separating Funnel

0.070 g of caffeine is

dissolved in 4.0 mL of

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water. The caffeine is extracted from the aqueous Counterflow

LLE: Determining Minimum S Solid

~~phase extraction:~~

~~Fundamentals and~~

~~recent developments~~

~~Liquid-Liquid~~

~~Extraction Lec 10:~~

~~Introduction to liquid-~~

~~liquid extraction, liquid-~~

~~liquid equilibria~~

Liquid-Liquid

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Extraction

*(separation) and
drying agent*

OFFICIAL

solvent extraction

lecture 9 *Liquid-Liquid
Extraction* \u0026amp;

Solid Phase

Extraction (CH-06)

(PART 2) BKF 3463

UNIT OPERATION :

LEACHING

PROCESS Solid

Phase Extraction

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~~(SPE) Tutorial~~

**LIQUID-LIQUID
EXTRACTION**

**-UNDERSTANDING
TERNARY DIAGRAM**

Solid Phase

Extraction 101

**Examples Solid
Liquid Extraction
Units**

Examples Solid Liquid
Extraction Units Solid-
Liquid Extraction

((Leaching))

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Leaching: is the separation of a solute from solid mixture by dissolving it in a liquid phase Leaching occurs in two steps: 1 Contacting solvent and solid to effect a transfer of a solute (leaching) 2 The separation of the

**[DOC] Examples
Solid Liquid**

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Extraction Units

Solid-Liquid
Extraction ((Leaching
) Leaching: is the
separation of a solute
from solid mixture by
dissolving it in a liquid
phase Leaching
occurs in two steps: 1
Contacting solvent
and solid to effect a
transfer of a solute
(leaching) 2 The
separation of the

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Extraction Units
solution from the
remaining solid
(washing) Examples
Solid Liquid Extraction
Units ...

**[Book] Examples
Solid Liquid
Extraction Units**

For the liquid streams
(extracts), we define:
 $R = A + C$ (kg) $x = C /$
($A + C$) undefined (
dimensionless) $N = B$

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Examples Solid

$L(A + C)$ undefined (dimensionless) Note: In the case of clear extracts (complete solid–liquid separation after mixing), $B=0$, hence $N=0$. On the contrary, in turbid extracts, $N>0$.

**Solid Liquid
Extraction - an
overview |
ScienceDirect**

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Topics

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Extraction Units 3

Optimal design of a solid-liquid extraction unit. As an example of the development of detailed models for the process units to be considered in the integrated process, we consider the optimal design of the solid-liquid extraction

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units, since solvent
extraction is a critical
step in oilseed
processing.

Examples Solid Liquid Extraction Units

Title: Examples Solid
Liquid Extraction

Units Author:

wiki.ctsnet.org-Ute Dr
eher-2020-10-01-00-1

6-19 Subject:

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components
according to their
distribution or SOLID-

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LIQUID

SEPARATION:

FILTRATION

Recovery of Penicillin
G from 200 m³

Fermentation

Flocculants Broth 200
m³ batch Rotary Filter

30 m²x2 Biomass

disposal 98% 97%

96% 992%

Examples Solid Liquid Extraction

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Oct 16 2020 Example
s-Solid-Liquid-

Extraction-Units 2/3

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at the conclusion of

the extraction 34

Liquid-to-solid ratio

(L/S) – The fraction of

the total liquid volume

(including the

moisture contained in

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Liquid

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Examples Solid Liquid Extraction Units

A simple example of
solid-liquid extraction
is coffee brewing,

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which involves the mixing of solid coffee grounds with water.

The coffee flavor compounds are extracted from the grounds into the water to form coffee. This video will illustrate the principles of extraction, and demonstrate solid-liquid extraction in the lab through the

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removal of organochloride residues from soil.

Extraction uses the property of solubility to transfer a solute from one phase to another.

Solid-Liquid Extraction | Protocol

Liquid-liquid
extraction (LLE)

Liquid-liquid

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liquid-liquid extraction (LLE) is based on the transfer of a solute from one liquid phase into another immiscible liquid phase according to differences in solubility. A common analytical challenge is measuring the level of a dilute analyte in a complex aqueous sample matrix, for

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Liquid
example blood
plasma or
wastewater.
Extraction Units

**Liquid-Liquid
Extraction -
Chemistry
LibreTexts**

Solid/Liquid extraction process is a very common process in the pharmaceutical, cosmetic and food industry to obtain

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natural ingredients as
e.g. flavors and
fragrances from
natural raw material.

The extraction can be
carried out with cold
or hot solvents.

Solid/Liquid
Extraction - De
Dietrich Process
Systems ...

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Optimal design of a solid-liquid extraction unit. As an example of the development of detailed models for the process units to be considered in the integrated process, we consider the optimal design of the solid-liquid extraction units, since solvent extraction is

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Examples Solid Liquid Extraction Units |

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e**

Liquid-Liquid
Extractor. Liquid-
Liquid Extraction with
solvents more dense
than water;

Contributors; Liquid-
Liquid extraction is a
method by which a
compound is pulled

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liquid
Extraction Units

from solvent A to solvent B where solvents A and B are not miscible. The most common method of liquid-liquid extraction is performed using a separatory funnel.

Liquid-Liquid Extraction - Chemistry LibreTexts

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Zeki Berk, in Food
Process Engineering
and Technology
(Third Edition), 2018.

11.4 Liquid-Liquid Extraction 11.4.1

Principles. Liquid-
liquid extraction, also
known as partitioning,
is a separation
process consisting of
the transfer of a
solute from one
solvent to another, the

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liquid-liquid extraction units
two solvents being immiscible or partially miscible with each other. Frequently, one of the solvents is water or an ...

Liquid-Liquid Extraction - an overview | ScienceDirect Topics

Liquid-liquid extraction (LLE), also

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known as solvent extraction and partitioning, is a method to separate compounds or metal complexes, based on their relative solubilities in two different immiscible liquids, usually water (polar) and an organic solvent (non-polar). There is a net transfer of one or more

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Liquid
Extraction Units
species from one
liquid into another
liquid phase,
generally from
aqueous to organic.

**Liquid–liquid
extraction -
Wikipedia**

Solid-Liquid
Extraction ((Leaching
) Leaching: is the
separation of a solute
from solid mixture by

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dissolving it in a liquid phase. Leaching occurs in two steps: 1. Contacting solvent and solid to effect a transfer of a solute (leaching). 2. The separation of the solution from the remaining solid (washing). Factors influencing the rate of ...

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Solid-Liquid Extraction ((Leaching

The dissolving process of a chemical component with a liquid out of a second non-gaseous phase is called extraction.

Depending on the kind of the second phase this process is named either solid/liquid extraction

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Extraction Equipment - Liquid and Solid Solutions | De ...

Abstract. Liquid—liquid extraction is a unit operation based on differential solubility of a consolute in two immiscible solvents.

This separation

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Liquid-Liquid Extraction Units
technique, also known as solvent extraction, has many successful applications in the pharmaceutical industry because of its inherent flexibility and its suitability for processing heat-sensitive products.

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Solid-Liquid

Extractors, part of the
Industrial Equipment

for Chemical

Engineering set,

presents a concise

and easy-to-use book

on the calculation of

differential

liquid-liquid

extraction, an

investigation of

equilibrium and

material transfer

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between a fluid and a divided solid, and the fundamentals of liquid–solid extraction, among other strategies. The author also provides methods needed for the understanding the machinery used in applied thermodynamics in the hopes of encouraging students

Read Free Examples Solid Liquid and engineers to construct the programs they need.

Chapters are
complemented with
appendices which
provide additional
information and
associated
references. Presents
reliable and simple
methods of extraction
and partitioning
Provides a clear

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analysis on the topic
of liquid-liquid and
solid-liquid extraction

Includes practical
applications that
readers can
implement and study

Solid Phase
Extraction thoroughly
presents both new
and historic
techniques for dealing
with solid phase

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extraction. It provides all information laboratory scientists need for choosing and utilizing suitable sample preparation procedures for any kind of sample. In addition, the book showcases the contemporary uses of sample preparation techniques in the most important

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Liquid and
academic project
environments,
Extraction Units
including solid-phase
Microextraction,
molecularly imprinted
polymers, magnetic
nanoparticles, and
more. Written by
recognized experts in
their respective fields,
this one-stop
reference is ideal for
those who need to

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know which technique to choose for solid phase extraction.

Used in conjunction with a similar release, Liquid Phase Extraction, this book allows users to master this crucial aspect of sample preparation. Defines the current state-of-the-art in extraction techniques and the

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methods and
procedures for
implementing them in
laboratory practice
Includes extensive
referencing that
facilitates the
identification of key
information Aimed at
both entry-level
scientists and those
who want to explore
new techniques and
methods

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The authors have written a practical introductory text exploring the theory and applications of unit operations for environmental engineers that is a comprehensive update to Linvil Rich's 1961 classic work, "Unit Operations in Sanitary

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Engineering". The book is designed to serve as a training tool for those individuals pursuing degrees that include courses on unit operations. Although the literature is inundated with publications in this area emphasizing theory and theoretical derivations, the goal

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of this book is to present the subject from a strictly pragmatic introductory point-of-view, particularly for those individuals involved with environmental engineering. This book is concerned with unit operations, fluid flow, heat transfer, and mass transfer. Unit

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liquid operations, by definition, are physical processes although there are some that include chemical and biological reactions. The unit operations approach allows both the practicing engineer and student to compartmentalize the various operations that constitute a process, and

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emphasizes
introductory
engineering principles
so that the reader can
then satisfactorily
predict the
performance of the
various unit operation
equipment.

Get Cutting-Edge
Coverage of All
Chemical Engineering
Topics— from

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Fundamentals to the
Latest Computer
Applications First
Extraction Units
published in 1934,
Perry's Chemical
Engineers' Handbook
has equipped
generations of
engineers and
chemists with an
expert source of
chemical engineering
information and data.
Now updated to

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reflect the latest
technology and
processes of the new
millennium, the Eighth
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guide provides
unsurpassed
coverage of every
aspect of chemical
engineering-from
fundamental
principles to chemical
processes and
equipment to new

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Comprehensive

tables and charts for

unit conversion A

greatly expanded

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and chemical data

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New to this edition:
the latest advances in
distillation, liquid-
liquid extraction,
reactor modeling,
biological processes,
biochemical and
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chemical plant safety
practices with
accident case
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and Mathematical
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Particle Dynamics
Reaction Kinetics •
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Process Economics •
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Storage of Fluids •
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Equipment •
Psychrometry,
Evaporative Cooling,
and Solids Drying •
Distillation • Gas
Absorption and Gas-
Liquid System Design
• Liquid-Liquid
Extraction Operations
and Equipment •
Adsorption and Ion
Exchange • Gas-Solid

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Operations and
Equipment • Liquid-
Solid Operations and
Equipment • Solid-
Solid Operations and
Equipment • Size
Reduction and Size
Enlargement •
Handling of Bulk
Solids and Packaging
of Solids and Liquids
• Alternative
Separation Processes
• And Many Other

Read Free Examples Solid Liquid Extraction Units Liquid Phase

Extraction thoroughly presents both existing and new techniques in liquid phase extraction. It not only provides all information laboratory scientists need for choosing and utilizing suitable sample preparation

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procedures for any kind of sample, but also showcases the contemporary uses of sample preparation techniques in the most important industrial and academic project environments, including countercurrent chromatography, pressurized-liquid

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extraction, single-drop

Microextraction, and

more. Written by

recognized experts in

their respective fields,

it serves as a one-

stop reference for

those who need to

know which technique

to choose for liquid

phase extraction.

Used in conjunction

with a similar release,

Solid Phase

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Extraction, it allows users to master this crucial aspect of sample preparation. Defines the current state-of-the-art in extraction techniques and the methods and procedures for implementing them in laboratory practice Includes extensive referencing that facilitates the

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identification of key information Aimed at both entry-level scientists and those who want to explore new techniques and methods

Extraction processes are essential steps in numerous industrial applications from perfume over pharmaceutical to fine

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chemical industry.

Nowadays, there are three key aspects in industrial extraction processes: economy and quality, as well as environmental considerations. This book presents a complete picture of current knowledge on green extraction in terms of innovative processes, original

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methods, alternative
solvents and safe
products, and
provides the
necessary theoretical
background as well as
industrial application
examples and
environmental
impacts. Each chapter
is written by experts in
the field and the
strong focus on green
chemistry throughout

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the book makes this book a unique reference source.

This book is intended to be a first step towards a future cooperation in a new extraction of natural products, built to improve both fundamental and green parameters of the techniques and to increase the amount

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Liquid Extraction Units

of extracts obtained from renewable resources with a minimum consumption of energy and solvents, and the maximum safety for operators and the environment.

In recent years the use of liquid—liquid extraction equipment has attracted

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widespread interest from all major chemical engineering, petroleum and pharmaceutical companies as well as university-based scientists and engineers.

Liquid—Liquid
Extraction Equipment
presents : a critical
analysis of all
available information,

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including practical
recommendations
new ideas on
performance
enhancement and
equipment selection
an up-to-date review
of research results on
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performance
illustrations of present
understanding using
well-known equipment
a concise survey of

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past, present and forthcoming procedures The combination of the historical aspects of the subject, with extensive references and illustrations, make this a unique information source. All researchers, in industry and academia, using this type of equipment will

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find Liquid—Liquid
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an authoritative
reference work and a
solid basis for future
research projects.

This textbook is
targetted to
undergraduate
students in chemical
engineering, chemical
technology, and
biochemical

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processes, transport
processes, and unit
operations. The
principles of mass
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diffusional and
convective have been
comprehensively
discussed. The
application of these
principles to

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separation processes
is explained. The
more common
separation processes
used in the chemical
industries are
individually described
in separate chapters.
The book also
provides a good
understanding of the
construction, the
operating principles,
and the selection

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criteria of separation
equipment. Recent
developments in
equipment have been
included as far as
possible. The
procedure of
equipment design and
sizing has been
illustrated by simple
examples. An
overview of different
applications and
aspects of membrane

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separation has also been provided.

‘Humidification and water cooling’, necessary in every process industry, is also described.

Finally, elementary principles of ‘unsteady state diffusion’ and mass transfer accompanied by a chemical reaction are covered.

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- A balanced coverage of theoretical principles and applications.
- Important recent developments in mass transfer equipment and practice are included.
- A large number of solved problems of varying levels of complexities showing

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the applications of the theory are included. •

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Demonstrating the relationship of the basic theory of solid-phase extraction (SPE) to

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comprehensive
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reference illustrates
how SPE techniques
significantly contribute
to the preparation of
samples for a wide
variety of analytical
techniques. It
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details on the
applications of SPE to
environmental
matrices, broad-

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spectrum drug
screening, veterinary
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pharmaceutical drug
development,
biological samples,
and high-throughput
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world-renowned
experts in the field,
the book contains
helpful reference
charts, tables of
solvent properties,

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selectivities,
molecular acid/base
properties, and more.

This book focuses on a novel approach that blends chemistry with forensic science and is used for the examination of controlled substances and clandestine operations. The book will particularly

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scientists,
criminologists, and
biochemists.

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