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ion Of Phen
ylalanine
Hydroxylase
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hydroxylase
activity by

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Hydroxylase
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AACCC.org

Phenylketonuria is the most abundant genetic disorder of the amino acid metabolism. It is characterized by a lack of phenylalanine hydroxylase

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which causes an increase of phenylalanine in cells and body fluids. Due to the lack of enzyme activity, phenylalanine, normally metabolised to tyrosine, is converted to phenylpyruvic acid.

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Phenylalanine

Hydroxylase
Quantification
of phenylalanine
hydroxylase
activity by ...

1 Quantification
of Phenylalanine
Hydroxylase
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Isotope-Dilution
Liquid Chromatog
raphy-Electrospr
ay Ionization
Tandem Mass

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Quantification Of
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Spectrometry
Hydroxylase
Caroline

Heintz¹, Heinz
Troxler¹, Aurora
Martinez², Beat
Thöny^{1,3,4},
Nenad

Blaul^{1,3,4,5}§*

¹Division of
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Biochemistry,
University
Children's

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Hydroxylase
Activity By

Hospital,
Zürich,
Switzerland;
2Department of
Biomedicine,
University of
Bergen ...

**Phenylalanine,
Tyrosine &
Tryptophan HPLC
Assay | Eagle
...**

The activity of
Page 12/46

Read Online Quantification Of Phenylalanine

rat liver

phenylalanine

hydroxylase has

been measured in

systems which,

in addition to

the components

necessary for

hydroxylation,

contained

ascorbic acid

and catalase. 6?

Methyl?tetrahydr

opterine or the

Read Online Quantification Of

Phenylalanine
Hydroxylase
Activity By
corresponding
6,7-dimethyl

compound was
used as tetrahyd
ropterine
cofactor.

**Quantification
of phenylalanine
hydroxylase
activity by ...**

On the 20th day
of gestation,
the liver (and

Read Online Quantification Of Phenylalanine Hydroxylase

the kidney) is devoid of phenylalanine hydroxylase and at birth contains 20% of the adult activity. During the second postnatal week of development, when the phenylalanine hydroxylase

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Quantification Of
Phenylalanine
Hydroxylase
Activity By
activity was
about 40% of the
adult value, an
injection of
cortisol doubled
this value.

**[Detection of
phenylalanine
hydroxylase
activity in
human ...**

Phenylalanine
hydroxylase

Read Online
Quantification Of
Phenylalanine
(PAH) (EC
1.14.16.1) is an
enzyme that
catalyzes the
hydroxylation of
the aromatic
side-chain of
phenylalanine to
generate
tyrosine. PAH is
one of three
members of the b
iopterin-
dependent

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hydroxylases, a class of monooxygenase that uses tetrahydrobiopterin (BH₄, a pteridine cofactor) and a non-heme iron for catalysis.

Phenylalanine

Page 18/46

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Quantification Of
Phenylalanine
Hydroxylase
Activity in
Liver Biopsies
from ...

The data
obtained
indicate the
presence of
phenylalanine
hydroxylase
activity in
human leucocytes
and fibroblasts.
The following

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methods were used: estimation of accumulation of the oxidized form of the pteridine cofactor after Ayling and coworkers and radiochemical method. Probably this activity is ...

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Hydroxylase
Quantification
of phenylalanine
hydroxylase
activity by ...

Residual
phenylalanine
hydroxylase
(PAH) activity
is the key
determinant for
the phenotype
severity in
phenylketonuria
(PKU) patients

Read Online Quantification Of Phenylalanine Hydroxylase Activity By

and correlates
with the
patient's
genotype.

Activity of in
vitro expressed
mutant PAH may
predict the
patient's
phenotype and
response to tetr
ahydrobiopterin
(BH 4), the
cofactor of PAH.

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Phenylalanine

Hydroxylase
Quantification
of phenylalanine
hydroxylase
activity by ...

The predicted
level of
phenylalanine
hydroxylase
activity
correlated
strongly with
the pretreatment
serum level of

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Phenylalanine
Hydroxylase
Activity By
phenylalanine (r
= 0.91, P less
than 0.001 in
the Danish
patients and r =
0.74, P ...

**Quantification
of phenylalanine
hydroxylase
activity by ...**

With heart
failure a
leading cause of

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Phenylalanine
Hydroxylase
Activity By
death, a better
understanding of
metabolic
function in the
heart is a
welcome advance.
Murashige et al.
measured more
than 270
metabolites
using liquid chr
omatography-mass
spectrometry in
human blood

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Phenylalanine
Hydroxylase
Activity By

samples taken from an artery entering the heart and from a vein leaving it. Differences thus reflected the metabolic processes at work in the heart.

**Comprehensive
quantification**

Read Online
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Phenylalanine
Hydroxylase
of fuel use by
the failing ...

...caused by
decreased
activity of
phenylalanine
hydroxylase
(PAH), an enzyme
that converts
the amino acid
phenylalanine to
tyrosine, a
precursor of
several

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important
hormones and
skin, hair, and
eye pigments.

Decreased PAH
activity results
in accumulation
of phenylalanine
and a decreased
amount of
tyrosine and
other
metabolites.

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Quantification Of
Phenylalanine
Hydroxylase
Quantification
of phenylalanine
hydroxylase
activity by ...

Residual
phenylalanine
hydroxylase
(PAH) activity
is the key
determinant for
the phenotype
severity in
phenylketonuria
(PKU) patients

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and correlates
with the
patient's
genotype.

Activity of in
vitro expressed
mutant PAH may
predict the
patient's
phenotype and
response to tetr
ahydrobiopterin
(BH 4), the
cofactor of PAH.

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**Quantification
Of Phenylalanine
Hydroxylase
Activity**

Quantification
of phenylalanine
hydroxylase
activity by
isotope-dilution
liquid chromatog
raphy-
electrospray

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Phenylalanine
ionization
Hydroxylase
tandem mass
spectrometry.

Heintz C(1),
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Martinez A,
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Chemistry and
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University

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Children's
Hospital,
Zürich, By
Switzerland.

**Describe the
biochemical
relationships
between these**

...

The range of
phenylalanine
hydroxylase
activity was

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Phenylalanine
Hydroxylase
Activity By
determined by
measuring the
conversion of
radioactive
phenylalanine to
tyrosine in
liver and kidney
of various
vertebrates.

Rodents (rats,
mouse, gerbil,
hamster and
guinea pig) were
found to have

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Quantification Of
Phenylalanine
Hydroxylase

the highest
liver
phenylalanine
hydroxylase
activity among
all animals
studied.

**QUANTIFICATION
OF PHENYLALANINE
HYDROXYLASE
ACTIVITY BY LC**

•••

Activity of in

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in vitro expressed mutant PAH may predict the patient's phenotype and response to tetrahydrobiopterin (BH₄), the cofactor of PAH.

METHODS: A robust LC-ESI-MSMS PAH assay for the

Read Online
Quantification Of
Phenylalanine
Hydroxylase
Activity By
quantification
of phenylalanine
and tyrosine was
developed.

**In vitro
residual
activities in 20
variants of ...**

Thank you for
joining me on
this Pearl of
Laboratory
Medicine on

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Quantification Of
Phenylalanine
hydroxylase

deficiency. 900
Seventh Street,
NW Suite 400
Washington, DC
20001 U.S. Phone
//

+1.202.857.0717
or 800.892.1400
Fax //
+1.202.887.5093

Phenylalanine

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Quantification Of
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hydroxylase -
Wikipedia

Activity By
quantification
of phenylalanine
hydroxylase
activity by lc-
ms/ms Article in
Journal of
Inherited
Metabolic
Disease
34:S94-S94 .
January 2011
with 15 Reads

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Phenylalanine
Hydroxylase
Activity By

How we measure
'reads'

**Distribution of
phenylalanine
hydroxylase (EC
1.14.3.1) in ...**

Phenylketonuria
(PKU), caused by
phenylalanine
hydroxylase
(PAH) gene
variants, is a
common autosomal

Read Online Quantification Of Phenylalanine Hydroxylase

inherited
metabolic

disease. So far,

1111 PAH

variants have

been revealed.

The residual

activity of the

PAH variants is

the key

determinant of

the metabolic

phenotype and BH

4responsiveness

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Quantification Of
Phenylalanine
in PKU patients.
Hydroxylase

**The quantitative
determination of
phenylalanine**

•••

Extract: Liver
biopsy samples
from the
patients with hy
perphenylalanine
mia have an
average of 5% of
the normal

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Quantification Of
Phenylalanine
hydroxylase
Hydroxylase
Activity By
The parents of the
patients have
between 7.3%
(excluding the
...

**Phenylalanine
hydroxylase |
enzyme |
Britannica**
Phenylalanine
deficiency

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stimulates the
activation of
phenylalanine
metabolites in
the brain
tissues thus
resulting in the
impairment of
neurotransmitter
synthesis
(Schuck et al.,
2015). The
inactivity of
enzyme

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Phenylalanine
hydroxylase

lowers By

phenylalanine
metabolism

levels thus
resulting in the
development of
an autosomal
recessive
disorder known
as
phenylketonuria
(PKU) .

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Phenylalanine
Hydroxylase

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8d00d5514c6c9f81](#)