





V



Somatometric

Demographic



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Somatometric

Demographic

/ mg/l / µg/l / µg/l :

/ mg/l / mg/l / mg/l / mg/l / mg/l

/ mg/l

/ mg/l / mg/l / µg/l / µg/l :

/ mg/l / mg/l / mg/l / mg/l / mg/l

/ mg/l

WHO/FAO

Pediatric

¹ Metallotheioneins

.(Wang Needdham)

)

(

()

()

()

.(Vahter)

¹ Xenobiotics
² Ecotoxicological
³ mmunotoxic
⁴ Embrytoxic

()

..

.(Goyer)

.(Gulson)

.(Gundacker)

, g/cm³

/ g/mol

c°

/ c°

% ()

μm

PbBrCl

km m

/ *

.(Murozumi)

.(Patterson) / ng/m³

%

μm

Nriagu)

μg/l μg/l

.(Pacyna

Elwood)

.(

(/ mg/kg)

(/ c°)

Пb

(c°)

(Yates)

%

(Pacyna)

(/)

)

Jensen)

()

(

m³ .(

/ μg / μg / μg

%

%

()

%

() / $\mu\text{g/g}$

/ $\mu\text{g/l}$

%

.

(Friberg)

/ μg

/ μg

/ μg

μg)

Rasmussen Jensen) (/ μg)

(

$\mu\text{g/l}$

.

($\mu\text{g/l}$)

$\mu\text{g/l}$

%

.

(Lauwerys)

)

$\mu\text{g/day}$

(

%

(

)

Patriarca)

:

.

()

%. (Camner)

%

(Raghunath)

.(Gulson)

.(Patriarca)

.(Oskarsson)

.(Gundacker)

%

.(Palminger)

Gulson

/ / %

.(Schwartz)

%

.(Honda: Radisch)

:

¹ Cytosol

DNA

.(Atkinson)

.(/ mg/d)

Moore)

.(

.(Keen)

.(Atkinson)

.(Linder)

.(Reinstein)

Lonnerdal)

(

.(Linder)

(kelleher)

.(Agarwal)

.(Lonnerdal)

(Friberg)

)

()

(

Cystenic-rich

.(Nagai Sato)

Cherian)

.(WHO ;

D

()

()

.(Buchet ; Buchet)

"forme fruste"

.(WHO) D

¹ Hypercalciuria
²Itai-Itai

.(Bhattacharyya)

)

(

Sato ;

Chmielnicka)

.(Nagai

.(Chan)

(Bhattacharyya)

.(Chan)

.(Flanagan)

¹ Trophoblasts

.(NRC)

)

.(

Aub

Goyer Six

Bogden

.(

Mahaffey ;

Barton)

(Goyer Six)