

( )

C

\*

( // : // : )

( L ) C

ppm C  
( )

ppm  
ppm

ppm  
(P< / )

( )

C ppm (P< / )

PHA

C ppm CBH (P< / )

ppm

C

C

(P< / ) C ppm

C

ppm

C :

C

C

ppm

C

.( )

C

C

)C

(

C

C

C

C

FAD + NAD<sup>+</sup>

C

.( )

C

(Ross)

( )

.( )

( )

C

( ppm)

C

C

C

(C

)

C

BASF

% /

L

C

B

C

B

( )

( )

C  
( )

.( )

( )

ppm

T

B

C

C

( )

C :

۴

RPMI - 1640 (IBV)  
%  
ConA<sup>6</sup> PHA<sup>5</sup>  
( )<sup>۲</sup> ELISA<sup>1</sup>  
ConA PHA  
MTT CO<sub>2</sub> (HI<sup>۳</sup>)  
CO<sub>2</sub>  
PBS %  
HI  
( )  
(log<sub>2</sub> 1/x)  
( )  
(in vivo) ( ) / )  
% / cc / PHA (EDTA %)

---

4. Thomson (Hemacytometer)  
5. Phytohemagglutinin (PHA)  
6. Concanavalin A (ConA)

---

1. Enzyme linked immuno sorbent assay  
2. Flockchek IDEXX  
3. Haemagglutination Inhibition

CBH<sup>1</sup>

SAS ( )

( ) C ppm

Arcsin  $\sqrt{X}$

( ) (p < / )  
C ( )

C

C

ppm (P < / )

ppm

(P < / )

( ) C

( )

C

C ppm

( )

C

C

C

( )

ppm C

/	/	
/	/	
/	/	
/	/	
/	/	
/	/	*
/	/	
)		
(		
/	/	%
/	/	%
/	/	%
/	/	%
/	/	+
/	/	%

\* هر ۲/۵ کیلوگرم مکمل ویتامین دارای ۱۶۰۰۰۰۰ واحد بین‌المللی ویتامین A، ۲۰۰۰۰۰ واحد بین‌المللی ویتامین D<sub>3</sub>، ۵۰۰ میلی‌گرم ویتامین k<sub>3</sub>، ۱۸۰۰ میلی‌گرم تیامین، ۳۶۰۰ میلی‌گرم ریوفلاوین، ۱۰۰۰۰۰ میلی‌گرم پانتوتنیک اسید، ۳۵۰۰۰ میلی‌گرم نیاسین، ۳۵۰۰ میلی‌گرم پیرویدوکسین، ۵۵۰ میلی‌گرم اسید فولیک، ۱۰ میلی‌گرم ویتامین B<sub>12</sub>، ۱۵۰ میلی‌گرم بیوتین و ۱۳۰۰۰ گرم کولین کلرید است. مکمل معدنی نیز در هر ۲/۵ کیلوگرم دارای ۶۴ گرم منگنز، ۴۴ گرم روی، ۱۰۰ گرم آهن، ۱۰ گرم مس، ۳۷۰ میلی‌گرم ید و ۱۵۰ میلی‌گرم سلنیوم است.

( ) C ppm  
(p < / )

1. Cutaneous basophil hypersensitivity (CBH)

C :

(ppm) C

/ a	/ a	/ ab	/ b	/	/	/ b	/ b	C (ppm)
/ C	/ b	/ b	/ b	/	/	/ ab	/ ab	
/ bC	/ ab	/ ab	/ ab	/	/	/ a	/ a	
/ ab	/ ab	/ b	/ b	/	/	/ a	/ a	
/ C	/ ab	/ a	/ a	/	/	/ a	/ a	
/	/	/	/	/	/	/	/	
(p< / )								

C ( )

C

D<sub>3</sub>

C

( )

C

( )

C

( )

C

:

C

C

C

ppm

( )

( )

C

C

ppm

(p< / )

( )

ppm

C

ppm

(p< / )

C

( )

ppm (p < / ) (ppm ) C  
 ( ) C PHA  
 Con.A (ppm) C

/ a	/ d	/	/ a
/ b	/ b	/	/ a
/ ab	/ Cd	/	/ b
/ b	/ a	/	/ b
/ a	/ bC	/	/ b
/	/	/	/

C ppm (p < / )  
 ( ) (p < / )  
 C ( )  
 (p < / )  
 ( )

in ( ) T  
 ( ) ppm vitro C  
 T C (p < / ) C  
 ( ) B T C C ( )  
 ( ) ( ) ppm

( ) C  
 RNA  
 DNA ( )  
 PHA  
 T B T  
 T Con.A C  
 C  
 C  
 ( ) ( )  
 C ppm

C :

in vitro (ppm) C  
 concanavalin A(ConA) phytohemagglutinin(PHA)

PHA	ConA	ConA	PHA	PHA	ConA	ConA	PHA	C (ppm)
/ bC	/ bC	/ b	/ C	/ b	/ bC	/ b	/ C	/ d
/ b	/ ab	/ b	/ b	/ b	/ a	/ b	/ b	/ b
/ C	/ C	/ b	/ C	/ b	/ C	/ b	/ C	/ C
/ a	/ ab	/ b	/ C	/ C	/ C	/ a	/ C	/ b
/ bC	/ a	/ a	/ a	/ a	/ bC	/ a	/ a	/ a
/	/	/	/	/	/	/	/	/

(P < / )

( ) =

C

:(CBH)

C

C

( )

(p < / )

C

ppm

CBH

CBH

ppm

ppm

(p < / )

C

.( )

(ppm ) C

(Cutaneous Basophyl

hypersensitivity)

CBH	C
/ b	
/ b	
/ b	
/ a	
/ a	
/	

(p < / )

T  
 .( )

C

( )

CBH

ACTH

ACTH

C

CBH

.( )





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