



Adenosine deaminase enzyme					
(1)				(2)	
(3)	( 5)	(4)			
(6)	<i>Vaginalis</i>	<i>Trichomonus</i>			
<i>Eimeria tenella</i>					
A					A
, 8 , 7)	Natural Killed			IgA IgG	
	( 15-10)	E		( 10)	( 9
	E	( 11)			
Interferon - $\gamma$ (IFN - $\gamma$ ) Interleukin -2 (IL-2)					
Interleukin- 6 (IL-6) Tissue Necrotic factor (TNF $\alpha$ )					
	150	( 12)		( 9 R E )	
9.5		% 3		% 8	
(13 )		K		% 4 %	
				K	
2002/6/30 2002/5/5					
		360	(1 $\times$ 2)		(Pens)
			( 20)		
24		50			3
				(1)	
					% 0.5

. ( 2)

46 -37

( 15)

(14 )

.( 17)

(16)

$$\mu \quad Y \quad Y_j = \mu + T_i + e_{ij}$$

$e_{ij}$

$T_i$

T.test

(18)

( 0.05 > 0.01 > )

(1)

)	)	
50	52.5	
16.5	10	
22	24	% 44
10	12	(1)
0.5	0.5	( )
0.25	0.25	
0.75	0.75	
(2)		
20.82	22.17	%
2955	2926	/ )
141.93	131.98	<b>C:P</b>
		<b>Ratio</b>
1.033	1.125	%
0.319	0.339	%
1.396	1.605	%
0.844	0.946	%

2300 %50

%5.1

% 10.3

% 0.69

% 2.61

/

(2)

			1	1	
/ A	6.6		<sup>2</sup> A +	2	
/ E	160		<sup>3</sup> E +	3	
/ K	5		4K +	4	
/(E	160+ A	6.6)	E + A +	5	
/(K	5+ A	6.6)	K + A +	6	
/(K	5+E	160)	K + E +	7	
/(K	5+E	160+ A	6.6)	+A +	8
			K +E		
				9	

200 2000 :

10000

A 500000 :A -2

E 500 : E -3

K 510 : K -4

( 0.05 > ) (1)

A,E,K

E A

K

A ( 19, 8 )

IgG , IgA

( 0.05 > ) (1)

(21.62)

0E A K E A

( 0.05 > )

( 22, 21, 20)

k E A E A

, 23)

E (10

Secretory-Immunoglobulin ALFA( sIgA)

E (11 )

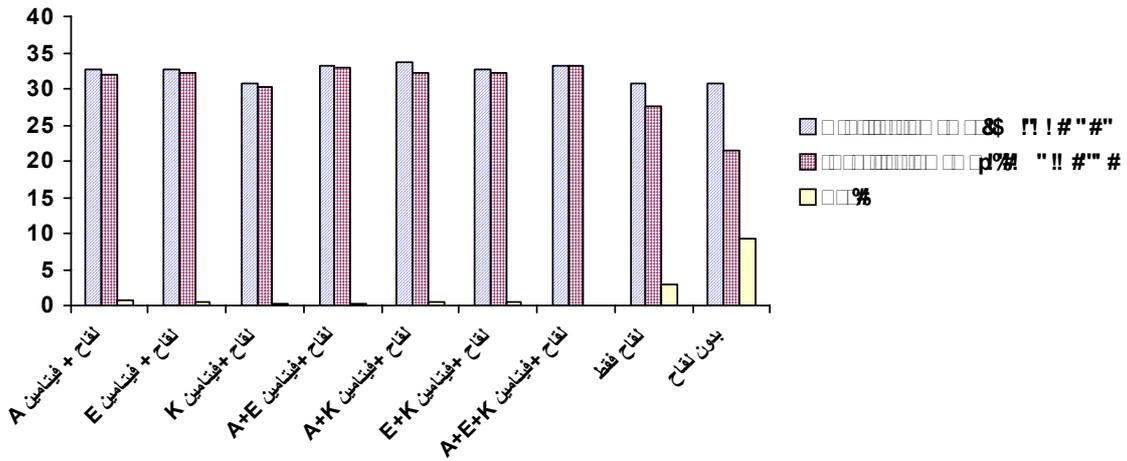
> ) ( 1)

( 0.05

E ( 24)

(NO)

(cGMP)



(1)

( 46 )

(37 )

( 0.05 > )

( 3 )

K

E A

K E A

(25 )

(26 )

k

E A k E A

E (27) (11)

(28)

Hetrofel

( / 300) E

Goblet cell

(3)

(0.05 > )

(22 , 21, 20)

(3)

k E A

E A

(0.05 > )

E A

E A

Vitamin E –Lipid complex

-

E

(29) Hydroxyle free radicl

E (10)

( Arachidonic)

Cyclic adenosine monphosphate (cAMP )

A (30)

(3)

(0.05 > )

A

E A

K E

E A

(31)

(3)

( 46 ) ( 37 )

**	26740	52620 c	25880 b	<b>A</b> +
**	27260	52660 c	25400 b	<b>E</b> +
**	65000	92620 b	36620 a	<b>K</b> +
NS	1080	21880 d	20800 c	<b>A+E</b> +
**	26760	52420 c	25660 b	<b>A+K</b> +
**	26860	52080 c	25220 b	<b>K+E</b> +
NS	240	20940 d	20700 c	<b>(A+E+K)</b> +
**	55780	92160 b	36380 a	
**	1155960	1192000 a	36040 a	

> )

.(0.05

( 0.01 > )

\*\*

N.S

(4 )

( 0.05 > )

( K E A )

(32,21,20,14)

( E A )

(4 )

(-<sup>3</sup> 10× 3.5 )

( 0.05 > )

.( 33)

Corticosterone

( K E A )

( 0.05 > )

( E A )

E

(10 )

( 32 ,21, 20)

( 31) E A  
 ( 0.01 > ) ( 4)

( 21, 20)

(4)

u/mg )

( 46 ) ( 37 )  $10^{-3} \times$ (protein

**	13.58	29.66 b	43.24 b	<b>A</b> +
**	14.34	30.26 b	44.60 b	<b>E</b> +
**	14.48	27.22 b	41.70 c	<b>K</b> +
**	12.52	36.48 a	49.0 a	<b>A+E</b> +
**	14.22	29.70 b	43.92 b	<b>A+K</b> +
**	13.90	31.02 b	44.92 b	<b>K+E</b> +
**	12.84	36.72 a	49.56 a	<b>(A+E+K)</b> +
**	13.72	26.96 b	40.68 c	
**	18.62	3.58 c	22.52 d	

> )

.(0.05

( 0.01 > )

\*\*

( 0.05 > )

(5)

K E A

E A

( 5)

( 0.05 > )

( K E A )

INF- ( E A )  
 ( 0.05 > )  
 Interleukin -2 (IL-2) Interferon  $\gamma$ ( $\gamma$ )  
 ( 0.05 > ) ( 5 ) . ( 34 )

A E ( 34 ) E

(5)

$10^{-3} \times (\text{u/mg protein})$

( 46 )

( 37 )

**	6.3	24.2 b	30.5 c	<b>A</b> +
**	6.2	24.8 b	31.0 c	<b>E</b> +
**	9.4	17.1 c	26.5 d	<b>K</b> +
**	8.9	28.8 a	37.7 a	<b>A+E</b> +
**	7.2	25.0 b	32.2 b	<b>A+K</b> +
**	7.2	25.5 b	32.7 b	<b>K+E</b> +
**	8.4	29.7 a	38.1 a	<b>(A+E+K)</b> +
**	10.1	16.2 c	26.3 d	
**	21.6	5.2 d	26.8 d	

> )

.(0.05

( 0.01 > )

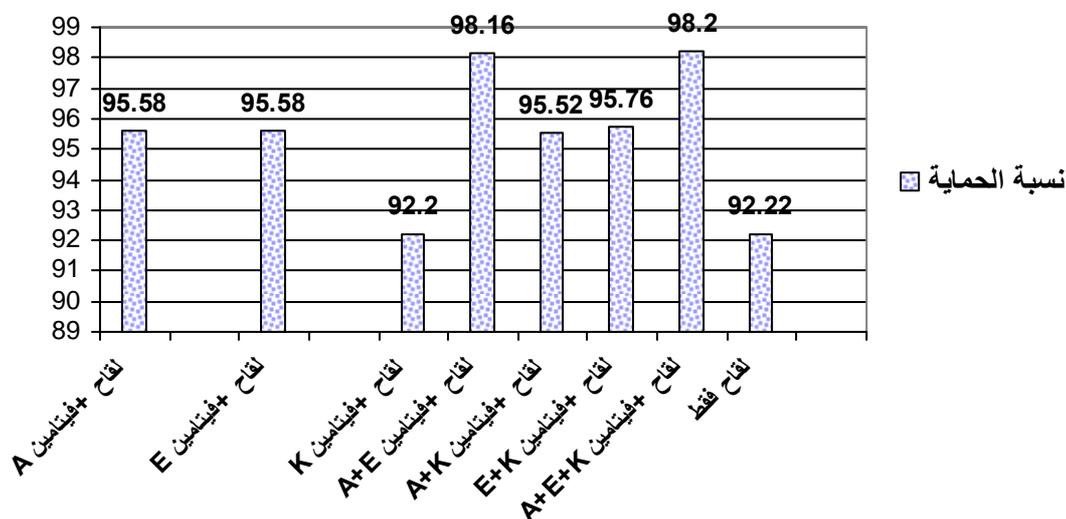
\*\*

K E A ( 2 )  
 ( 0.05 > ) 98.20

. (16 )

( 10 ) ( 0.05 > ) 92.20

K E A K



(2)

( 46 )

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