

**Table (3):** Digestibility coefficients and feeding values of diets with different supplements.

Items	Digestibility coefficients (%)					Feeding Values		
	DM	CP	EE	CF	NFE	TDN	DCP	DE Kca/Kg
Control	66.55 <sup>d</sup>	67.34 <sup>d</sup>	72.74 <sup>d</sup>	26.57 <sup>b</sup>	71.18 <sup>c</sup>	61.60 <sup>c</sup>	11.44 <sup>d</sup>	2667.53 <sup>c</sup>
Parsley (P)	69.58 <sup>a</sup>	69.77 <sup>c</sup>	74.37 <sup>b</sup>	27.97 <sup>a</sup>	72.71 <sup>b</sup>	63.20 <sup>b</sup>	11.88 <sup>c</sup>	2738.77 <sup>b</sup>
Ginseng (G)	68.87 <sup>b</sup>	70.76 <sup>b</sup>	75.04 <sup>b</sup>	27.15 <sup>b</sup>	73.29 <sup>b</sup>	63.65 <sup>b</sup>	12.03 <sup>b</sup>	2757.66 <sup>b</sup>
P+G	67.95 <sup>c</sup>	73.34 <sup>a</sup>	76.65 <sup>a</sup>	27.20 <sup>b</sup>	75.25 <sup>a</sup>	65.35 <sup>a</sup>	12.47 <sup>a</sup>	2832.85 <sup>a</sup>
SEM	0.75	1.22	0.41	1.75	1.58	0.47	0.28	22.50
Significance	*	*	*	*	*	*	*	*

a...d: Means denoted within the same column for each factor with different superscripts are significantly (P<0.05) different.

**Table (4).** Effect of designing caged system, natural feed additives and their interaction on concentrations of some blood biochemical, minerals and immune response of growing rabbits.

Items	Total protein (g/dl)	Albumin (g/dl)	Globulin (g/dl)	Total lipids (mg/dl)	Cholesterol (mg/dl)	Glucose (mg/dl)	Calcium (mg/dl)	Phosphorus (mg/dl)	Titer
<b><u>Caged system (CS):</u></b>									
Flat	6.11	3.70	2.41	3.15 <sup>b</sup>	91.40	134.62	9.41	5.96	108.11
Semi pyramidal	5.86	3.62	2.21	3.67 <sup>a</sup>	91.73	129.09	9.10	5.27	106.67
SEM	0.12	0.13	0.07	0.11	0.12	5.99	0.46	0.23	0.51
Significance	NS	NS	NS	*	NS	NS	NS	NS	NS
<b><u>Natural Feed additive (FA):</u></b>									
Control	5.56 <sup>b</sup>	3.54 <sup>b</sup>	2.02	3.63 <sup>a</sup>	91.76 <sup>a</sup>	139.73 <sup>a</sup>	8.18 <sup>c</sup>	5.08	90.22 <sup>d</sup>
Parsley (P)	6.16 <sup>a</sup>	3.92 <sup>a</sup>	2.24	2.87 <sup>b</sup>	91.37 <sup>a</sup>	141.84 <sup>a</sup>	9.21 <sup>b</sup>	5.48	113.27 <sup>c</sup>
Ginseng (G)	5.92 <sup>b</sup>	3.76 <sup>b</sup>	2.16	2.67 <sup>b</sup>	66.41 <sup>c</sup>	118.12 <sup>c</sup>	9.46 <sup>b</sup>	5.55	116.70 <sup>b</sup>
P+G	5.99 <sup>ab</sup>	3.81 <sup>ab</sup>	2.18	2.45 <sup>c</sup>	70.11 <sup>b</sup>	126.77 <sup>b</sup>	10.19 <sup>a</sup>	5.80	118.74 <sup>a</sup>
SEM	0.10	0.09	0.06	0.11	0.10	6.70	0.30	0.27	0.79
Significance	*	*	NS	*	*	*	*	NS	*
Interaction between (DS) and (NFA)									
Significance	NS	NS	NS	NS	*	NS	*	NS	NS

a...d: Means denoted within the same column for each factor with different superscripts are significantly (P<0.05) different

**Table (7):** Some physical semen characteristics of buck rabbits fed diets with different supplements.

Items	Semen ejaculate volume (ml)	Sperm cell conc. (X10 <sup>9</sup> /ml)	Sperm motility (%)	Sperm abnormality (%)	Dead spermatozoa (%)
Control	0.80	224.33 <sup>C</sup>	71.88 <sup>b</sup>	16.60	9.98 <sup>a</sup>
Parsley (P)	0.83	229.14 <sup>ab</sup>	76.94 <sup>a</sup>	14.90	7.93 <sup>b</sup>
Ginseng (G)	0.85	230.88 <sup>a</sup>	78.72 <sup>a</sup>	14.48	6.74 <sup>b</sup>
P+G	0.86	226.48 <sup>b</sup>	73.66 <sup>b</sup>	15.07	8.27 <sup>ab</sup>
SEM	0.04	0.84	0.75	0.69	0.55
Significance	NS	*	*	NS	*

a...d: Means denoted within the same column for each factor with different superscripts are significantly (P<0.05) different.

**Table (8):** Microbial activity of caecum of rabbits fed diets with different supplements.

Items	Total bacterial count. (x10 <sup>6</sup> )	Ureolytic bacteria (x10 <sup>5</sup> )	Lactobacilli (x10 <sup>5</sup> )	Escherichia Coli (x10 <sup>4</sup> )	Clostridium Spp.
Control	13.11 <sup>C</sup>	4.51 <sup>a</sup>	5.49 <sup>d</sup>	8.96 <sup>a</sup>	7.76 <sup>a</sup>
Parsley (P)	19.88 <sup>b</sup>	2.30 <sup>b</sup>	18.19 <sup>c</sup>	4.98 <sup>b</sup>	5.10 <sup>b</sup>
Ginseng (G)	20.68 <sup>ab</sup>	2.10 <sup>b</sup>	18.63 <sup>bc</sup>	5.05 <sup>b</sup>	4.88 <sup>b</sup>
P+G	23.54 <sup>a</sup>	1.88 <sup>c</sup>	22.02 <sup>a</sup>	4.08 <sup>b</sup>	4.20 <sup>b</sup>
SEM	0.94	0.21	0.81	0.53	0.30
Significance	*	*	*	**	**

a...d: Means denoted within the same column for each factor with different superscripts are significantly (P<0.05) different.

**Table (9):** Economic Feed efficiency of rabbits as affected by designing of caged system and feed additives and their interaction between them.

Items	Total Feed Intake (Kg)	Feed Cost (L.E.)	Cost (L.E)/Kg gain	Priced gain (L.E)	Economic efficiency(%)
<i>Caged system (CS):</i>					
Flat	9.45 <sup>a</sup>	19.86 <sup>a</sup>	13.50 <sup>b</sup>	27.99	1.41
Semi pyramidal	8.99 <sup>b</sup>	18.91 <sup>b</sup>	13.83 <sup>a</sup>	26.09	1.38
<b>Significance</b>	*	*	*	*	*
<i>Natural Feed additive (FA):</i>					
Control	9.19 <sup>ab</sup>	18.37 <sup>d</sup>	13.56 <sup>c</sup>	25.78 <sup>c</sup>	1.40 <sup>b</sup>
Parsley (P)	9.06 <sup>b</sup>	19.03 <sup>c</sup>	14.31 <sup>a</sup>	25.31 <sup>c</sup>	1.33 <sup>d</sup>
Ginseng (G)	9.34 <sup>a</sup>	19.62 <sup>b</sup>	12.95 <sup>d</sup>	28.81 <sup>a</sup>	1.47 <sup>a</sup>
P+G	9.28 <sup>a</sup>	20.41 <sup>a</sup>	13.85 <sup>b</sup>	28.01 <sup>b</sup>	1.37 <sup>c</sup>
<b>Significance</b>	*	*	*	*	*
<i>Interaction between (CS) and (NFA)</i>					
<b>Significance</b>	NS	NS	NS	NS	NS

a...d: Means denoted within the same column for each factor with different superscripts are significantly (P<0.05) different.

Price of each kg of control, parsley, ginseng and parsley plus ginseng diets was 2.00, 2.10, 2.10 and 2.20 LE, respectively , and price of each kg gain was 19 LE according to marketing price(2010).