

()

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(/ / : / / :)

)

(

/ /

(OMD)

(PPP)

(ME)

(P< /)

(P< /) PPP

ME OMD

(P< /)

%

(P< /)

(Abrishamizadeh, 1994)

(Saadatnoori, 1983)

(Abrishamizadeh, 1994)

(Foroughameri, 1997)

()

/
(Shakeri et al., 2004)

/ / / /
/
/ /

(Foroughameri, 1997; Fazaeli, 2005)

(Bagheripour et al., 2008)

)

(

%

(Tekasi et al., 1998)

%

(Seyed Momen, 2001)

%

()

(Vahmani & Naserian, 2005)

)

(

P		SEM					
ns	ns	/					
ns	ns	/					
ns	ns	/					
*	*	/	d	c	b	/	a
*	*	/	d	c	b		a
*	*	/	d	c	b		a
*	*	/	d	c	b		a

:ns % :*, :SEM
%

() Menke & Steingass

(AOAC, 1990)

$$\text{OMD} = 14/11 + 1/1193 G + 0.448 CP + 0.651 \text{ Ash}$$

(Deriaz, 1961)

$$\text{ME} = 2/20 + 1/357 G + 0.57 CP + 0.29 CP^2$$

(1993) Makkar et al.

() **OMD**
(ml/200 mg of **G**
() **CP DM**
ME () **Ash**
()

(Makkar et al., 1993)

$$Y_{ij} = \mu + T_i + e_{ij}$$

GLM SAS

T_i μ Y_{ij} e_{ij}

(2000) Makkar
(Makkar, 2000)

(2000) Makkar

(1988) Menke & Steingass

(P < /)

(ME)

(OMD)

(P < /)

1. Folin Ciocalteu
2. Tannic acid
3. Free Gallic acid
4. Gallotannins

± /				()
± /				()
± /				()
±			()	
± /			()	
± /		()		
±	/		()	
± /			()	
± /	/		()	
± /			()	
± /			()	
± /		()		
± /	/		()	
± /	/			(%)

	()		()
P		(%)	
	SEM		
*	*	/	/ a / b / c
*	*	/	a / b / c
*	*	/	/ a / b / c
*	*	/	/ a b / c
*	*	/	/ a / b / c
			. :ns :% :* :SEM
			. %

	()		()		()
P		(%)			
	SEM				
*	*	/	/ c / b / a / a		
*	*	/	/ d / c / b / a		
*	*	/	/ c / b / a / a		
*	*	/	/ c / b / a / a		
*	*	/	/ c / b / a / a		
			. :ns :% :* :SEM		
			. %		

	()		()
P		(%)	
	SEM		
*	*	/	/ c / b / a a
ns	*	/	b b / a a
			. :ns % :* :SEM
			. /

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(P < /)

(P < /)

(Min et al., 2005)

(P < /)

(Makkar, 2003)

-)

(

(Norton, 1998)

(McAllister et al., 1994)

(2006) Bagheripour

pH

(Kumar & Vaithyanathan, 1990; Kumar et al.,
.2001)

(Min et al., 2005)

(Van Soest, 1994)

(Waghorn et al., 1994)

(Sutton, 1976)

(Decandia

et al., 1998; Jansman, 1993; Kumar & Singh, 1984;
Reed, 1995)

- (Reed, 1995)

(Bagheripour et al., 2008)

(1986) Hagerman & Klucher

(Hagerman & Klucher, 1986; Bagheripour et al.,
.2008)

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