



**PRODEN  
PLAQUEOFF®  
DENTAL CARE BONES**

Influence of ProDen Plaque-Off® Dental Care Bones on oral health in dogs



**Conclusion**

In all conducted studies, ProDen PlaqueOff® Dental Care Bones efficiently and significantly decreased plaque and calculus accumulation as well as gingival bleeding. Based on the results of these studies, ProDen PlaqueOff® Dental Care Bones for large and small dogs was awarded the VOHC seal in the helps control plaque and helps control tartar claim categories.



**Trial description**

The length of the study = 30 days. Design of the study: blinded, controlled, randomised, unicentre. All animals participating in the study received the same type of treatment at day 0 which included COHAT and laboratory test with determination of T4 level. Then one group received product Dental Care Bones and dry diet, second group only dry diet.

The study has been conducted on n=30 dogs of different breed, both males and females with bodyweight within 1,0-4,0 kg (one group) and 4,1-40,0 kg (two groups). Dogs were randomly divided into two groups - (A) and (B). Every dog underwent full mouth clinical and radiographic assessment at day 0. The teeth in all dogs were scaled and polished on day zero so that the plaque and calculus scores were zero at the start of the trial. Following indices on Day 30 were measured: plaque index, plaque thickness, calculus score and gingival bleeding.

**Table 1.** Results on dogs in study 1 (1,0-4,0 kg)

	Plaque Index (mean +/- SD)	Calculus score (mean +/- SD)	Gingival bleeding index (mean +/- SD)
A Group (Control)	2,941 +/- 0,8228	0,9407 +/- 0,4670	0,4374 +/- 0,3313
B Group (Dental Care Bones)	1,459 +/- 0,5628	0,3555 +/- 0,2752	0,1120 +/- 0,1243
Statistical test	Parametric unpaired t-test	Parametric unpaired t-test	Parametric unpaired t-test
Statistical significance (P value)	YES: P<0,0001	YES: P=0,0003	YES: P=0,0013
Reduction in B vs A in %	50,4%	62,2%	74,4%

**Table 2.** Results on dogs in study 2 (4,1-40,0 kg)

	Plaque Index (mean +/- SD)	Calculus score (mean +/- SD)	Gingival bleeding index (mean +/- SD)
A Group (Control)	2,159 +/- 0,6475	0,6259 +/- 0,2958	0,2507 +/- 0,2003
B Group (Dental Care Bones)	1,422 +/- 0,4065	0,3665 +/- 0,3113	0,0887 +/- 0,2087
Statistical test	Parametric unpaired t-test	Parametric unpaired t-test	Non-parametric Mann-Whitney test
Statistical significance (P value)	YES: P=0,0009	YES: P=0,0265	YES: P=0,0024
Reduction in B vs A in %	34,1%	41,4%	64,6%

**Table 3.** Results on dogs in study 3 (4,1-40,0kg)

	Plaque Index (mean +/- SD)	Calculus score (mean +/- SD)	Gingival bleeding index (mean +/- SD)
A Group (Control)	2,444 +/- 0,4600	0,6111 +/- 0,3465	0,2587 +/- 0,2148
B Group (Dental Care Bones)	1,422 +/- 0,3581	0,2184 +/- 0,1940	0,0187 +/- 0,0578
Statistical test	Parametric unpaired t-test	Parametric unpaired t-test	Non-parametric Mann-Whitney test
Statistical significance (P value)	YES: P<0,0001	YES: P<0,0001	YES: P<0,0001
Reduction in B vs A in %	41,8%	69,4%	92,7%