



STUDIO TECNICO DI CHIMICA APPLICATA © 1994

Client: Saniti Bag s.r.l.
Test: Bacteriological analysis of three drinkable water samples located into three bowls, a plastic one, a stainless steel one and an aluminium one treated with G.H.A. (Golden Hard Anodizing).
Place of origin: Narni Scalo (TR).
Sampling report nr.: UNI 10802 CBF
Pickup date: September 25th 2014
Test end date: October 10th 2014
Register number: R1409/047

Sample analysis

The client provided us three bowls made of different materials (Picture 1, 2 and 3), meant to contain pet food.



Picture 1: plastic bowl



Picture 2: stainless steel bowl



Picture 3: G.H.A. treated aluminium bowl

Into the three bowls we inserted an equal quantity of drinkable water (100 ml).
We left the samples at room temperature for ten days, we then measured the bacterial count.
The results are as follows:

TESTED PARAMETERS	NORMAL LIMITS D.Lgs. n. 31/2001	ANALYSIS	ANALYSIS	ANALYSIS
		RESULTS Plastic	RESULTS stainless steel	RESULTS G.H.A. aluminium
Total Coliforms	max 0 MPN/100 ml	0	50	0
E. Coli	max 0 MPN/100 ml	0	0	0
Enterobacteria	max 0 MPN/100 ml	100	300	0
Clostridium	max 0 Colonies/ml	0	0	0
TBC at 22°C	max 100 Colonies/ml	120	207	0
TBC at 37°C	max 20 Colonies/ml	134	228	0
Pseudomonas aeruginosa	max 0 MPN/100 ml	0	0	0

We also checked a possible silver and aluminium leaching into the water contained in the aluminium bowl:

Examined Parameters	Measure Unit	Advised accumulated quantity in human tissues	Analysis results
Silver	mg/kg of Ag	max 7	< 0.1
Aluminium	mg/kg of Al	max 0.2	< 0.02

Apat - Irsa – CNR sampling methods / Instruments previously calibrated by Instrument Service s.r.l. (PG)



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Conclusions: the G.H.A. (Golden Hard Anodizing) treated aluminium container had a bactericidal effect, eliminating the bacteria possibly present in drinkable water and after ten days at room temperature it did not release significant nor dangerous quantities of silver and aluminium. The normal limits are merely indicative since a specific regulation on pet food is missing.

Il Tecnico
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[Valido a tutti gli effetti di Legge ai sensi del Decreto Ministero della Sanità n.745 del 26/09/94, Art.3 - D.L. n.502 del 30/12/92, Art.6 comma 3 - R.D. n. 275 dell' 11/02/99, Art.16 e 18 - Riconoscimento Ministero della Sanità del 30/12/98 Prot. n. 600.5 / 59.649/2989 - Cons. Stato n. 5417 del 03/08/04]