



TEST PROTOCOL

Product:	Pet Jewelry		
Scope:	Includes fashion necklaces, charms, earrings and any other type of decorative ornament worn on a pet collar or lead	Number	PETCO-7000



Version	12
Creation date	10/27/10
Created by	A. Ascolani
Revision date	2/16/22
Revised by	L. He
Approved by	E. George

	TEST	Test Method	No. Sample	Requirement
1. SUPPLEMENTAL PROTOCOLS				
1.1	California proposition 65	Applicable methods cited in the regulation and related case settlements	1	<p>Materials in all samples should be reviewed against the requirements of California Proposition 65, particularly for lead, cadmium, phthalates, and flame retardants, to determine if additional testing or labelling is required. If testing is performed, results will be for information purposes only. PETCO will review results and decide how to proceed.</p> <p>Note: If there is no suitable PROP 65 settlement, it will follow the below requirements to test and give Prop 65 conclusion.</p> <p>Lead in surface coating: limit 90 ppm, apply to paints and surface coatings;</p> <p>Lead in substrate materials: limit 100 ppm, Materials on the CPSIA exempt list will not be tested.</p>
2. LABELING				
2.1	Labelling / packaging review (if applicable)	F.P. & L Act 16 CFR 500 / NIST Uniform Laws and Regulations Handbook 130	1	<p>Should be legibly marked with the following information:</p> <ol style="list-style-type: none"> 1. Manufacturer, packer, or distributor's name & address (city, state & zip code). 2. Product identification 3. Net quantity of the contents in terms of weight, measure, volume or numerical count (metric & us standard) or a combination so as to give accurate information and facilitate value comparison by the consumer. 4. All samples must be reviewed against the requirements of FPLA and UPLR.



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2.2	Country of origin marking	19 CFR 134 / 16 CFR 303 / 16 CFR 300	1	<p>Packaging (When packaging is present and country of origin is not visible through the package):</p> <ul style="list-style-type: none"> • Country of origin must be written legibly in English and securely attached. • If any country, other than the country in which the article was manufactured or produced, is mentioned on the package, the country of origin must be stated in comparable size and close proximity. • Must be visible at point of purchase.
3. ANALYTICAL				
3.1	Total lead in surface coatings	ASTM F2923 CPSC Method	1	Shall not exceed 90 ppm (0.009% by weight) total lead.
3.2	Total lead content in accessible substrate materials	ASTM F2923 CPSC Method	1	<p>Shall not contain lead in excess of 0.01% (100ppm) of the weight of the total content. Report actual results or include data table within report. Component testing is allowed. Compositing up to 3 like materials is allowed. The composite result will be evaluated against the adjusted limit (regulatory limit divided by the number of composites). Materials on the CPSIA and ASTM F2923 exempt list will not be tested</p>
3.3	Heavy metal restrictions on paint and surface coatings	ASTM F2923/ ASTM F963	1	All accessible surface paint and coatings shall have heavy metals content comply with the following limits: Antimony (Sb) 60 mg/kg, Arsenic (As) 25 mg/kg, Barium (Ba) 1000 mg/kg, Cadmium (Cd) 75 mg/kg, Chromium (Cr) 60 mg/kg, Mercury (Hg) 60 mg/kg, Selenium (Se) 500 mg/kg.
3.4	Total Cadmium (Metals or Plastics)	ASTM F2923/ CPSC method	1	Shall not exceed 300 mg/kg.



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3.5	Nickel release (for metal materials with prolonged skin contact)	ASTM F2923/ EN 1811/ EN 12471/ EN12472	1	Shall not exceed $\leq 0.5 \mu\text{g}/\text{cm}^2$ (non-body-piercing)
3.6	Phthalates	Per client's requirement using CPSC test method	1	<p>Shall not contain concentrations of more than 0.1% by weight DEHP, BBP, DBP, DINP, DIDP and DNOP.</p> <p>Shall not contain concentrations of more than 0.05% by weight DPENP, DHEXP and DCHP.</p> <p>DBP, BBP, DEHP, DIBP sum shall be $<0.1\%$ by weight.</p> <p>DNOP, DINP, DIDP sum shall be $<0.1\%$ by weight.</p> <p>Report actual results or include data table within report.</p> <p>Follow Statement of Policy: Testing of Component Parts With Respect To</p> <p>Section 108 of the CPSIA and Petco requirements (revised 3/1/2018).</p> <p>Test all accessible components only.*</p> <p>Rate as PASS or CAR</p> <p>Test extends to PVC and other applicable plastic packaging.</p>
3.7	Stuffing Materials Evaluation	ASTM F963 Section 8.29	1	<p>Loose fillers for stuffed pet products shall be free of objectionable matter originating from insect, bird, rodent, or other animal infestation and of contaminants, such as splinters, glass and metal chips to the extent possible in good manufacturing practice when evaluated in accordance with Section 8.29</p> <p>* Stuffing cleanliness will only be applicable to fiber, fabric and foam fills, non-fiber materials are excluded – Plastic, metal, catnip.</p> <p>NOTE: Testing can be waived if the following can be provided: 1.) A current 3rd party test report on file in the Grovesite Vendor Portal, showing compliance to ASTM F963 Section 8.29 Stuffing Materials Evaluation. -AND- 2.) A Bill of Materials showing the tested and compliant stuffing used in making the pet product.</p>



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3.8	Total Chromium (leather products or parts only)	ISO 17075	1	<p>Determine Chromium (VI) in solutions leached from leather collars and leads using the most up to date version of ISO 17075-1 as reference test method, measure the soluble Chromium (VI) leached from leather sample in phosphate buffer at pH 7.5-8.0.</p> <p>Remove substances that could influence the detection by solid phase extraction, if necessary.</p> <p>Limit: 3 mg/kg</p>
3.9	Total Cadmium (leather products or parts only)	EPA 3050B EPA 3052	1	A concentration of 0.03% (300 ppm) by weight Cadmium (Per Prop 65; only on leather substrates
3.10	Leather Classification – If claimed as “leather” “genuine leather” or any claim defining the material as “leather”	ISO 17131	1	Microscopy validation test.



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3.11	Toxics in Packaging Clearing House Legislation (TPCH, former CONEG)	EPA 3052	1	<p>All packages, packaging components (including staples, coatings, inks, glues, labels, etc.), and packaged retail-ready products sold to Petco must be demonstrated as being in full compliance with all requirements of the Model Toxics in Packaging Legislation (TPCH legislation).</p> <p>The total concentration of the sum of Pb, Hg, Cd, Cr (VI) may not exceed 100mg/kg</p> <p>NOTE:</p> <ul style="list-style-type: none"> 3rd party test report must be from SGS, Intertek, Bureau Veritas (or such other CPSC accredited laboratories as may be accepted upon prior approval from Petco) Testing to be performed annually. Any change in packaging materials requires new testing. Each Vendor must adhere with all Petco Toxics in Packaging policies and procedures as set forth in the Vendor Guide and QA handbook, as applicable.
4. CONSTRUCTION & WORKMANSHIP				
4.1	Sharp points/ Sharp edges	16 CFR 1500.48/ 16 CFR 1500.49	All	Shall have no sharp points/edges, other than those required for function.
5. PERFORMANCE PROPERTIES				
5.1	Resistance to snapping and unsnapping of snap fasteners	ASTM D4846 (Mod.)	2	<p>Minimum 2 lbs. Maximum 8 lbs. Provide pictures and brief explanation of result on report</p> <p>Note: continue to repeat the process for additional 10 cycles and if exceed 2lbs-8lbs, report which cycle was exceeded on report.</p>

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5.2	Tension test for removal of components	ASTM F963 section 8.9 (Mod.)	1	<p>-For the connection component between the clasp and the connection part of the main body: Minimum of 15.0 lbs. for 10 seconds.</p> <p>-For all connection parts of the main body: Minimum of 15.0 lbs. for 10 seconds.</p> <p>-For snap fasteners: Minimum 17 lbs for 10 seconds for snap fasteners.</p> <p>Note: For Tassel - higher than 4 lbs at least first. For small, short threads on pompons - report tension test results as actual data (force at failure and thread length.)</p>
5.3	Torque tests for removal of components	ASTM F963 section 8.8	1	<p>-For the connection component between the clasp and the connection part of the main body: Min 4.0 in.lb for 10 seconds</p> <p>-For all connection parts of the main body: Min 4.0 in.lb for 10 seconds</p> <p>Note: For small, short threads on pompons- report torque test results as actual data.</p>
5.3	Drop Test	ASTM F963 Section 8.7.1	1	Should withstand 10 times from 4.5 ft Should provide pictures and brief explanation of result on report.
5.4	Corrosion test (metal components)	ASTM B117 Modified	1	Withstand 24 hours in 1% salt spray (fog) with no major corrosion or visual change. Modification – 1% salt spray
5.5	Cross-cut adhesion test (for paint/coating on metal part)	ASTM D3359 Method A/B	1	There shall be no less than 4B (percent area removed less than 5%) as per classification of ASTM D3359.



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5.6	Cyclic durability of rotating/moving (including fastening) components	Actual use	1	Each rotating/moving component (including fastening) shall sustain 100 cycles of operations without failure and able to provide a smooth uniform operation after the test.
5.7	Magnets (If applicable)	ASTM F2923, Sec. 12.1 & 13.2	1	Jewelry shall not have an as-received hazardous magnet or an as-received hazardous magnet component, unless it is earnings, brooches, necklaces or bracelets intended for children 8 years of age or older, as well as their instructions, which include a warning statement as specified.
6. COLORFASTNESS PROPERTIES				
6.1	Colorfastness to crocking	AATCC 8 / AATCC 116	1	<p>Color Staining-Dry: PASS: 3.5 or higher, CAR: 3.0, FAIL: below 3.0. Color Staining-Wet: PASS: 3.5 without warning/ 3.0 with warning, CAR: 3.0 without warning FAIL: below 3.0.</p> <p>Note: This clause includes non-woven printed materials If AATCC 8 is not applicable, follow AATCC 116. For accessible component which may be in constant contact with pet, people and floor/carpet.)</p>
6.2	Colorfastness to light	AATCC 16 Option C	1	<p>Color change-Minimum Class 3.5 at 20 AFU. PASS: 3.5 or higher, CAR: 3.0, FAIL: Below 3.0</p> <p>Note: This clause includes printed non-woven and plastic materials.</p>
6.3	Colorfastness to water	AATCC 107	1	<p>Color change-PASS: 3.5 without warning/ 3.0 with warning, CAR: 3.0 without warning FAIL: below 3.0. Staining (onto 7ultifibre swatch)-PASS: 3.0 or higher</p> <p>Note: This clause includes printed non-woven and plastic materials.</p>

SAMPLES
Always contact Lab for final sample size requirements prior to testing.



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Results Key:

M	Meets	NM	Does Not Meet
NA	Not Applicable	NT	Not Tested
C	Claimed	R	Recorded

Rating Key:

Pass	Pass
Fail	Fail
CAR	Corrective Action Required



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Revision #	Date	Revision Description	Reviewed by	Approved by
Initial	10/27/10	Reviewed and consolidated from different protocols		
1	4/6/12	Removed colorfastness test		
2	1/19/13	Updated test methods	A. Ascolani	A. Ascolani
3	11/13/14	Modified: prop 65 verbiage, drop test, effects of extreme temperature. Removed: transit testing, product application, instructions, retail shelf packaging, removed soluble heavy metal content, all physical characteristics, functional use, and material type. Added: total lead in substrate	V. Lowe	
4	7/29/2015	Added Total Cadmium and Heavy metal restrictions on paint and surface coatings.	V. Lowe	T. Anders
5	4/4/2016	Increased scope to all pet jewellery, added testing from ASTM F2923 children's jewelry standards: cyclic durability, cross-cut adhesion, nickel release, Magnets, Removed construction tests.	V. Lowe	T. Anders
6	9/7/2017	Updated Performance Properties: Tension and Torque test to include clasp and body components. Updated Colorfastness Properties. Updated Drop test requirements	E.George	T.Anders
7	3/14/18	PHTHALATES: Updating to ten phthalates. The new Petco's test methods requirement is a combination of 16CFR1307, Prop 65, Reach Annex XVII, Danish phthalates. The lab suggest not to mention each of specific standards, just state client's requirement. Limits have changed to reflect the lower 0.05% Danish limit on 4 specific phthalates. Added the calculation of the sums of DBP, BBP, DEHP and DNOP, DINP, DIDP per EU requirements. (This is a calculation only, no further testing required.) EU does not align on accessible materials only, so lab will follow Petco rule until alignment is clear.	Christy Neri w/ review by USA & China QA Team and Vincent Zhu (SGS Lab)	T.Anders



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8	6/12/18	<p>Removed: -Attachment strength of components – ASTM D7142-duplicative test covered in ATSM F9638.9</p> <p>Added: -Resistance to snapping and unsnapping of snap fasteners -Leather testing Requirements -Stuffing evaluation</p> <p>Updated: -Tension tests for removal of components to include requirement for snap fasteners -Cal Prop 65 Verbiage -Test Methods for Lead, Heavy Metals, Cadmium -Nickel Release, Chromium and Sharp Points -Cross cut adhesion test method</p>	E.George	E.George
9	10/31/19	<p>Added Toxics in Packaging Regulation</p> <p>Updated test requirement for Colorfastness to light</p> <p>Removed "test to Failure" in Resistance to snapping and unsnapping of snap fasteners, and Torque test for removal of components</p>	E. George	E. George
10	7/22/21	<p>Updated test requirement for Phthalates, Tension test for tassel- higher than 4 lbs at least first</p>	S. Kong	J. Musinde
11	1/7/22	Added note in 5.1 Resistance to snapping and unsnapping of snap fasteners	S. Kong	S. Kong
12	2/16/22	Updated test requirement for Phthalates	S. Kong	S. Kong