



## Product Evaluation of Pet Cosmetics/ Pet Care Product

The Testing Institute and Assessment Body  
**SGS Hong Kong Limited**

Confirms based on:

SGS test results (report # HKHC2111008622HC, HKHC2110008336HC)

### **Product Evaluation of DDY pet Spray Plus (Anti-bacterial Skin Essence) as Distributed by DDY Scientific Health and Beauty Ltd.:**

- The cosmetic formulation is unlikely to pose a significant risk to the health of intended pets when it is use as instructed.
- The submitted product sample has been tested by SGS and is considered to be satisfactory concerning heavy metals, microbial contamination, 1,4-dioxane, free formaldehyde and methanol.

Date of issue of the product evaluation: Nov 05<sup>th</sup>, 2021

A handwritten signature in black ink, appearing to read 'Mei-Yin CHIU'.

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Mei-Yin CHIU  
MPH, MSc, FRSB, CBiol  
European Registered Toxicologist (ERT)  
Diplomate of American Board of Toxicology (DABT)

SGS General Conditions and Additional Conditions apply (reserved)

SGS Hong Kong Limited | Office: 303 & 305, 3/F, Building 22E, Phase 3, HK Science Park, New Territories, Hong Kong t (852) 2334 4481 f (852) 2764 3126 e mktg.hk@sgs.com

SGS Hong Kong Limited | Laboratory: 1/F, 3/F, 4/F & 5/F, On Wui Centre, 25 Lok Yip Road, On Lok Tsuen, Fanling, New Territories, Hong Kong www.sgsgroup.com.hk



## Test Report

No. HKHC2111008622HC

Date :Nov 05, 2021

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DDY SCIENTIFIC HEALTH AND BEAUTY LTD  
7/F, KAI KWONG COMMERCIAL BUILDING,332-334 LOCKHART ROAD,WANCHAI, HONG KONG

The following sample was submitted and identified by the client as DDY pet Spray Plus (Anti-bacterial Skin Essence) (1 formulation)

Net Weight : 200 ml per consumer product  
SGS Report No. : HKHC2111008622HC  
SGS Case No. : HKHC211000003139-102  
Sample Receiving Information : Formulation with chemical name, CAS no. and percentage  
Country of Origin : Taiwan  
Manufacturer : Star Hein International Co., Ltd.  
Distributor : DDY Scientific Health and Beauty Ltd.  
Country of Destination : Hong Kong  
Sample Receiving Date : Oct 25, 2021 – Nov 03, 2021  
Test Period : Oct 25, 2021 – Nov 05, 2021

### Test Requested

Toxicological Risk Assessment (TRA) for said product.

### Test Results

Please refer to the following pages.

### Conclusion

Please refer to *Section IV: CONCLUSION*.

Signed for and on behalf of  
SGS Hong Kong Ltd.

Mei-Yin CHIU  
MPH, MSc, FRSB, CBiol  
European Registered Toxicologist (ERT)  
Diplomate of American Board of Toxicology (DABT)

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**TOXICOLOGICAL RISK ASSESSMENT**

The formulation of DDY pet Spray Plus (Anti-bacterial Skin Essence) is reviewed. The product is for Hong Kong market and intended for application on skin of cats and dogs for keeping it in good conditions by human adult (users). Only the formulation of essence is assessed while the claim and efficacy are not evaluated and verified in this assessment. The net weight of the essence (The formula under assessment) is 200ml per consumer product. Detailed formulation is submitted by the client. Ingredients are not presented in the report, whereas they are recorded in the SGS Archives.

**This risk assessment takes account of:**

Corrosivity  
Skin irritation  
Eye irritation  
Strong sensitization  
Oral toxicity  
Inhalation toxicity

**According to:**

General principle of toxicology

**The followings were considered in this toxicological assessment**

Ingredient toxicological profile  
Potential ingredient interaction  
Consumer exposure scenario

**Section I. FORMULATION REVIEW**

According to the client's needs to protect business secrecy, detailed formulations are NOT presented in this report, whereas they are recorded in the SGS Archives. In case of medical events, it is the client's responsibility to provide the formulations to a patient's physician, or SGS upon request may furnish relevant medical units, on a confidential basis, information necessary to diagnose or treat cases of exposure without prior written authorization.

There is no specific chemical classification system in Hong Kong and the classification according to EU is taken reference of. The formulation is not classified according to Regulation (EC) No 1272/2008 taking reference of the submitted SDS.

No fragrance has been indicated to be present in the formulation.

**Section II. CONSUMER HEALTH RISK ASSESSMENT**

Afore-mentioned formulation has been reviewed for safety at the basis of the following assumptions.

**Exposure assessment**

The following assumptions have been made for assessment of exposure:

- Product category: Pets essence
- Physical form: Liquid
- Intended use (suggested use): For keeping the skin of cats and dogs in good condition
- Accessibility: This product will contact the pets and users directly
- Exposure route(s): Primarily via dermal contact and inhalation of tiny amount of volatiles
- Default body weight: 3-10 kg for cats; 2-70 kg for dogs
- Target population: Cats and dogs

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**Section III. RISK EVALUATION**

This essence is intended for spraying on skin area of cats and dogs by users for keeping it in good condition. According to the using instruction, the essence is sprayed directly on the cleaned skin area i.e. ears and feet. It also suggested to use the product once in the morning and once at night in general and up to 5-8 times per day if the pets experience skin infection. It is indicated that around 1 ml of the essence will be used per application.

The essence is expected to contact the skin of the pets for an extended period of time when used as directed. Accidental exposure to eyes may cause irritation but is expected to be minimal after rinsing. Inhalation of volatiles from the spray is possible but the amount is expected to be very limited. Ingestion of small amount of the residual film of the essence on the skin is likely under normal and reasonably foreseeable conditions of use.

The essence is expected to contact the skin, mainly the hands, of the users during application. Direct contact with the eye of users is expected to be minimal under normal and reasonably foreseeable conditions of use. Inhalation of volatiles from the spray is possible but the amount is expected to be very limited. Ingestion is not a significant route of administration.

None of the ingredients at a level found in this product is expected to pose significant adverse health effects in pets and users with customary use. However, due to the presence of naturally occurring allergenic fragrances of sensitizing potential from the essential oils, the product should be kept out of reach of children, lest they may misuse the product.

Provided the manufacturer's instructions are followed and the ingredients used are of acceptable chemical purity and do not contain significant amounts of residues and contaminants, the product is unlikely to cause damage to internal organs through skin in the majority of cats and dogs as well as the users when used as directed.

**Section IV. CONCLUSION**

Provided the manufacturer's instructions are followed and all the ingredients used in the formulation are of acceptable grade, it is considered that, in the present state of knowledge, the submitted formulation put on the market is unlikely to pose a significant risk to the health of intended pets.

**Recommended Safety Labelling**

Used as directed.

External use for animals only.

Do not spray on the eyes.

Keep out of reach of children.

**The TRA assessment is valid under the following conditions:**

1. Potential physical, mechanical, electrical and microbiological risks of the product have not been assessed and evaluated.
2. The formulation, description and other supporting documents of the product were assumed to be valid and accurate.
3. It was assumed that either the ingredients, or the finished product contain no contaminants or residues that cause toxicity to a consumer who may be exposed. All polymers should be well-cured if they are present in the formulation.

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4. The risk evaluation can solely be applied to and appropriate for, the product described above under the stated conditions. Modification of any components of the finished product, such as net weight, adjustment of ingredient concentrations, should therefore require re-evaluation.
5. Heavy metal contents in the product were not assessed and evaluated.
6. This product has been assessed for compliance only with the regulation(s) specified herein.
7. If there is an adverse reaction from using this formulation then the undersigned should be informed so that the formulation can be further reviewed.
8. This product has been evaluated for health effect only, environmental concern/ ecotoxicity is not assessed in this report.
9. The assessment is performed by in-house method, taking reference of available consumer product exposure database, literature data to the best of knowledge by the time of assessment.

The validity of this review depends on accurate disclosure by both the manufacturer(s) of the components and of the finished products. Best professional capabilities are used in performing this review. If client wishes to use this opinion with any alterations to the submitted formula, SGS (HK) Ltd. or any of its employees will not be held liable for any injury or damage resulting from this product. A review of this assessment should be programmed at regular and frequent intervals (upon reformulation of the components or the finished products or upon any change to health and safety regulations).

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Only the DDD pet Spray Plus (Anti-bacterial Skin Essence) is assessed in this report



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\*\*\*\*\* End of Report \*\*\*\*\*

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## Test Report

No. HKHC2110008336HC

Date : Nov 03, 2021 Page 1 of 5

DDY SCIENTIFIC HEALTH AND BEAUTY LTD  
7/F, KAI KWONG COMMERCIAL BUILDING, 332-334 LOCKHART ROAD, WANCHAI, Hong Kong

Job No. : HKHC211000003139

The following sample was submitted and identified by the client as DDY pet Spray Plus (Anti-bacterial Skin Essence)

Product Description : DDY pet Spray Plus (Anti-bacterial Skin Essence)  
Quantity Received : 1 bottle x 200 ml/bottle  
Sample Appearance : Transparent liquid  
SGS Sample No. : HKHC211000003139-102  
Sample Receiving Condition : In unopened plastic bottle original package under ambient condition  
Sample Receiving Date : Oct 25, 2021  
Testing Period : Oct 25, 2021 – Nov 03, 2021

### Test Requested, Test Methods and Test Results

Please refer to the following page(s).

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Signed for and on behalf of  
SGS Hong Kong Ltd.

HO CHI MING, RICKY  
SENIOR MANAGER

Signed for and on behalf of  
SGS Hong Kong Ltd.

WONG KIN MAN, GILMAN  
TECHNICAL DEVELOPMENT MANAGER

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## Test Report

No. HKHC2110008336HC

Date : Nov 03, 2021 Page 2 of 5

### Test Requested

1. To perform Arsenic, Lead, Mercury and Cadmium analyses on the submitted sample.
2. To perform Total Bacterial Count, Total Combined Moulds & Yeast Count , Pseudomonas aeruginosa, Staphylococcus aureus and Thermotolerant Coliform Bacteria analyses on the submitted sample.
3. To determine the content of Methanol in the submitted sample.
4. To determine the content of Free Formaldehyde on the submitted sample.
5. To determine the content of 1,4-Dioxane in the submitted sample.

### Test Methods

1. Heavy Metal Contamination  
The analyses were performed by in-house method employing microwave digestion followed with Inductively Coupled Argon Plasma Mass Spectrometry.
2. Microbial contamination  
The analyses were performed with reference to Safety and Technical Standards for Cosmetics 2015.
3. Methanol  
The analysis was performed by Headspace Gas Chromatography Mass Spectrometry Measurement.
4. Free Formaldehyde  
The analysis was performed with reference to the European Directive 90/207/EC employing High Performance Liquid Chromatography - Photodiode Array Detector.
5. 1,4-Dioxane  
The analysis was performed by in-house method employing Headspace Gas Chromatography equipped with Mass Spectrometry.

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## Test Report

No. HKHC2110008336HC

Date : Nov 03, 2021 Page 3 of 5

### Test Results

<u>Parameter</u>	<u>SGS Sample No.:</u> <u>HKHC211000003139-102</u>	<u>Limit #</u>
<i>(1) Heavy Metal Contamination</i>		
Arsenic (As)	< 0.082 mg/kg (ppm)	≤ 2 mg/kg (ppm)
Cadmium (Cd)	< 0.082 mg/kg (ppm)	≤ 5 mg/kg (ppm)
Lead (Pb)	< 0.041 mg/kg (ppm)	≤ 10 mg/kg (ppm)
Mercury (Hg)	< 0.041 mg/kg (ppm)	≤ 1 mg/kg (ppm)
<i>(2) Microbial Examination</i>		
Total Viable Count for aerobic mesophyllic micro-organism		
- Total Bacterial Count	< 10 cfu/ g	≤ 1000 colony/ g for non-eye/ lip area use
- Total Combined Moulds & Yeast Count	< 10 cfu/ g	≤ 100 cfu/ g
Thermotolerant Coliform Bacteria	Absent / g	Absent/ g
Pseudomonas aeruginosa	Absent / g	Absent/ g
Staphylococcus aureus	Absent / g	Absent/ g
<i>(3) Methanol</i>	88 mg/kg	≤ 2000 mg/kg
<i>(4) Free Formaldehyde</i>	Not detected	0.2% (w/w)
<i>(5) 1,4-Dioxane</i>	Not detected	≤ 30 mg/kg

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## Test Report

No. HKHC2110008336HC

Date : Nov 03, 2021 Page 4 of 5

### Note :

1. Results reported on the submitted sample on an as received basis.
2. < = less than
3. ≤ = not more than
4. Not Detected = below the Detection Limit
5. The Detection Limit of Free Formaldehyde was 0.02% (w/w).
6. The Detection Limit of Methanol is 25 mg/kg.
7. The Detection Limit of 1,4-Dioxane was 1.0mg/kg (ppm).
8. # = Limits:  
Safety and Technical Standards for Cosmetics, 2015 edition, China Food and Drug Administration
  - (i) Heavy Metal Contamination - Part 1 General, Table 2 (3.4) Restricted Limit of Harmful Elements in Cosmetic Products.
  - (ii) Microbiological Requirements - Part 1 General (3.3) in Safety and Technical Standards for Cosmetics, 2015 edition.
  - (iii) Methanol - Part 1 General, Table 2 (3.4) Restricted Limit of Harmful Elements in Cosmetic Products.
  - (iv) Free Formaldehyde - Part 3, Table 4 (23) List of Permitted Preservatives [*For other products as preservatives*]
  - (v) 1,4-Dioxane - must not form part of the composition of the cosmetic products with reference to the Part 1 General, Table 2 from the Hygienic Standard of Cosmetics. However, 30 mg/kg is the restricted limit provided that such presence is technically unavoidable according to the notice from the State of Food and Drug Administration (SFDA), PRC dated February 6, 2012.

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## Test Report

No. HKHC2110008336HC

Date : Nov 03, 2021 Page 5 of 5

Sample Receiving Date : Oct 25, 2021

### PHOTO APPENDIX



HKHC21100003139-102

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