

Test Report

Version: V5
Date: 2022-2-22

	Sample Name	Sample Description	Specification	Batch Number/Manufacture Date	Expiry Date
Test Sample	ZENGHERB (Armpit deodorant)	Liquid	/	202110 10	/

The Client

Ji'nan Zeng Chinese Traditional Medicine Science And Technology Co., Ltd

The Client Address

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Intertek Testing Services Ltd., Shanghai

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本机构通讯资料

CENTRE DATA

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1. Objective

20 volunteers spray the products onto both sides of armpit till the last drop and observe skin condition and check every day if the odor appears. When the odor appears (the whole test period should be within 60 days no matter odor appears or not), interview the volunteers and record the odor control lasting period, allergic case, color changing case, skin peeling case. And ask the volunteers to evaluate on overall liking, suitability for long-term usage, purchase intent and pricing, and describe the likes of the products.

2. Investigational product(s)

2.1. Use method

Table 1 Sample information and instruction

No.	Product Name	Product code	Use Method
1	ZENGHERB(Armpit deodorant)	SHJ1409677	<p>【Method】 After bath, dry armpits and spray 10 times onto each armpit for enough dosage. Spread evenly around the whole armpit area with fingers avoiding liquid flow down. Use up the whole bottle. Depends on the skin condition, you can apply a little Vaseline or lotion for hydration in the following days. Effects might vary due to different constitutions. Last 7-60 days.</p> <p>【Warning】 Spray onto inner wrist to check allergy before use if often staying up late, being tired or sensitive skin. Stop using this product if rash, red or itching. Self-healing in few days without adverse effect on body. Avoiding direct contact with eyes.</p>

2.2. Investigational product(s) requirements

It is required that the client have to sign the product safety statement before signing the test to ensure the safety of the investigational product(s). The safety statement is used to ensure that the investigational product(s) used under the prescribed conditions do not pose a foreseeable risk to the health of the subjects.

The investigational product(s) was/were packed and labeled by the Sponsor with the following information:

- Category name
- Expiry date or Period of time after opening (if applicable)
- Storage conditions (if applicable)
- Additional information (if applicable)

To improve traceability, Intertek will add to each investigational product additional information:

- The Intertek reference study number
- Number of subjects
- Sample site(if applicable)

3. Subjects

3.1. Voluntary to take part in the test and sign the informed consent form

All subjects received oral and paper informed consent in accordance with local laws and regulations. Informed consent explains the nature and purpose of the study and the potential risks involved in the study, and emphasizes the voluntary nature of the test, and the subjects can exit the study at any time for any reason. All subjects can ask questions about research and give sufficient time before signing. All informed consent must be signed before the start of the study.

3.2. Inclusion Criteria

- 1) No gender and age limitation (evenly spreading age)
- 2) Has armpit odor and can easily smell it by self
- 3) High compliance and can keep regular life habit during test period
- 4) Can read and understand Informed Consent Form and voluntarily sign it
- 5) Stop using skin care products with similar effect of test products

3.3. Exclusion Criteria

- 1) Pregnant female

3.4. The target numbers of panel

Screening numbers: 21

Final numbers: 21

3.5. Screening failure, subject withdraw and replacement rules

Subjects who haven't been included the group: Subjects signed the informed consent, but failed to be included the group because they did not meet the inclusion criteria/exclusion criteria. Need supplement.

Subjects withdraw: After randomization or distribution, the subjects left and fell off. The subjects that did not complete the research for any reason were no longer replaced.

Criteria for with draw:

- Subject decision. The subject is at any time free to discontinue, without prejudice to further treatment. (According to the Helsinki declaration)
- Adverse events/Serious adverse events: Any researchers believe that continuing trials will be unfavorable to the subjects.
- Severe non-compliance with the study protocol
- Lost to follow up
- Other reasons:
 - In other cases, the researchers believe that continued participation in the trial is unfavorable to the subjects.
 - Termination of the principal.

4. Test environment

Temperature: Normal temperature

5. Test procedure

5.1. Study design

Spray onto armpits till the last drop and observe skin condition and check every day if the odor appears. When the odor appears, interview the volunteers with questionnaire via phone call. The whole test period should be within 60 days no matter odor appears or not. Interview will be conducted and end the test after 60 days.

5.2. Test process

- ① Courier products to volunteers' home
- ② Volunteers use up the test product at one time according to the usage instruction
- ③ observe skin condition and check if the odor appears every day
- ④ When the odor appears, interview the volunteers with questionnaire via phone call/ interview via phone call and end the test even if no odor appears after 60 days

5.3. Test duration

60 days

5.4. Test schedule

Table 2 Test schedule

Observation project /Date	Week0	Week 1-6	Week 6
Volunteers are all recruited	O	—	—
Courier products to volunteers and volunteers use products	—	O	—
Interview volunteers with questionnaire via phone call	—	O	O

*: “O” means implement, and “—” means no implement.

5.5. Test items for observation

- Spray onto armpits till the last drop and observe skin condition and check every day if the odor appears. When the odor appears, interview the volunteers with questionnaire via phone call.

6. Data analysis and statistical methods

6.1. Valid case

Table 3 Valid case table

Classification				Adopted or not
The adopted	The completed		Those completed according to the test implementation plan	Yes
	Uncompleted cases	The terminated	Those terminated because of adverse events	No
		Drop out	Those quite from the test because of individual reasons or cannot be tracked.	No
		The nonconformity	Those belonging to inobservance to restrictions	No

6.2. Data statistical analysis method

- Mathematical statistic analysis. Descriptive statistics on each measured value including quantity, mean value etc. using EXCEL
- Wilcoxon signed-rank test using SPSS. Significant test $\alpha=0.05$.

7. Adverse events

7.1. Definition of adverse events

Adverse events refer to unhealthy phenomena found after the test samples are used regardless of causality (complication or accidental symptom) with the test sample. However, adverse events found before the test sample is used or symptoms (e.g. headache and dysmenorrhea) existing at ordinary times shall not be included in the adverse events of the test, but their deteriorations after the samples are used shall be counted.

7.2. Evaluate of the adverse events

All skin adverse reaction during using products such as skin red, tingling, itching, burning, etc. shall be recorded.

Skin adverse reaction classification using the standard of skin reaction classification of human trial test (<Safety and Technical Standards for Cosmetics>(2015 edition)):

0 = no evidence;

1 = minimal erythema;

2 = moderate, uniform redness, spotty and diffuse, infiltration;

3 = strong uniform redness, edema, spotty, blister;

4 = fiery redness, edema, bulla.

Adverse reactions in the following three criteria:

Mild – participants can bear, do not need special processing, do not affect the subjects' normal life;

Moderate – unbearable, participants need to stop using the product or do special processing, affect the subjects' normal life;

Severe – interferes with normal life, need to immediately stop using the product or do emergency treatment.

Relationship between adverse events and test product judgment standard:

Criteria:

A Affirm, test product and reaction time sequence is reasonable, reaction stop when stop using test product, quickly alleviate, reaction again when use products again, at the same time there is literature evidence, and have excluding influence of other confounding factors;

B Probably, use test product and reaction time sequence is reasonable, reaction stop when stop using test product, quickly alleviate, rule out other factors;

C Maybe, use the test products and reaction time is close, but cause adverse reaction product is more than one, or there are other factors except not;

D Maybe not, use test products and adverse reactions occur time is not close, symptom is not consistent with known cosmetics adverse reaction;

E For additional evaluation, information is not complete, or difficult to clear causal relationship, lack of literature evidence;

F Can't evaluation could not clear causal relationship, data cannot be added.

8. Termination or suspension of the test

The test will be terminated or suspended if it is regarded that it is difficult to continue the test because of a serious safety issue. After the test technician or the sponsor decides to terminate or suspend the test, the subjects shall be informed of such the termination or suspension as soon as possible, and all necessary countermeasures shall be taken.

9. Test tie and locaiton

Sample receiving date: 2021/12/2

Test time: 2021/12/3-2022/1/13

Test location: Volunteers' home

10. Project operation

A1. Subjects

Planned enrolled number: 20

Screening number: 21

Enrolled number: 21

Finished number: 21

Analyzing number: 21

Subjects' age analysis in table 4, more details in appendix A

Table 4 Subjects

Parameters		Statistical results
Age analysis	Number	21
	Average age \pm SD	35
	Min age	22
	Max age	59

A2. Project implementation

Test process: normal

Test environment: normal temperature

Data processing: normal

A3. Adverse event:

None

A4. Plan deviation: none

11. Test results

12.1. Overall liking, likes and dislikes. In table 5、table 6. More details in appendix D

Table 5 Overall liking (Total sample: n=21)

(7-point scale) *	Frequency	Percentage %
Top3 (7+6+5)	20	95
Top2 (7+6)	20	95
Mean	6.10	

* 7-Like it very much, 6-Like it relatively, 5-Like it a bit, 4-Neither like nor dislike, 3-Dislike it a bit, 2-Dislike it relatively, 1-Dislike it very much

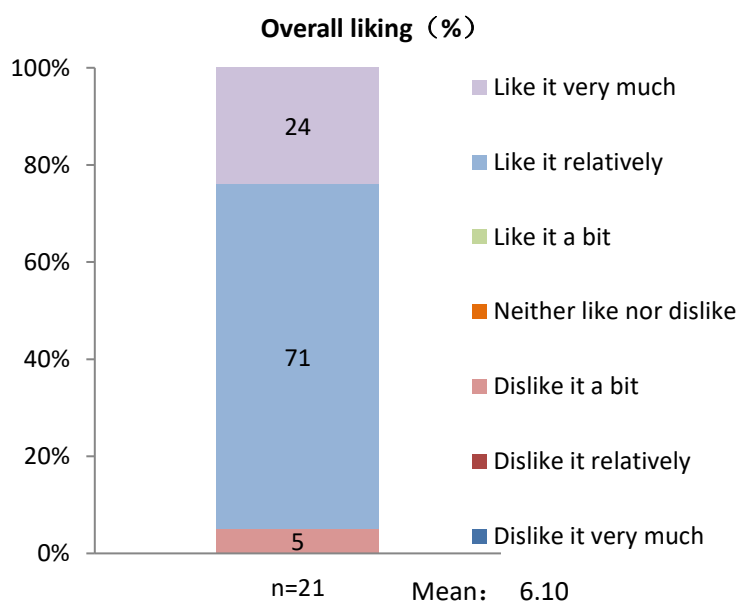


Table 6 What volunteers like about the product (Total sample: n=21)

	Frequency	Percentage %
Long lasting odor control	20	95
Good packaging design	7	33
Good smell	9	43
Convenient usage	18	86

12.2. Days of odor control lasting, Suitability of long-term usage, purchase intent and pricing. In table7, table 8, table 9, table 10. More details in appendix D

Table 7 Days of odor control lasting (Total sample: n=21)

(Days)	Frequency	Percentage %
0-5 days	4	19
6-10 days	6	29
11-15 days	3	14
16-20 days	3	14
21-25 days	3	14
26-30 days	-	-
31-35 days	1	5
36-41 days	1	5
Mean (days)	14.52	

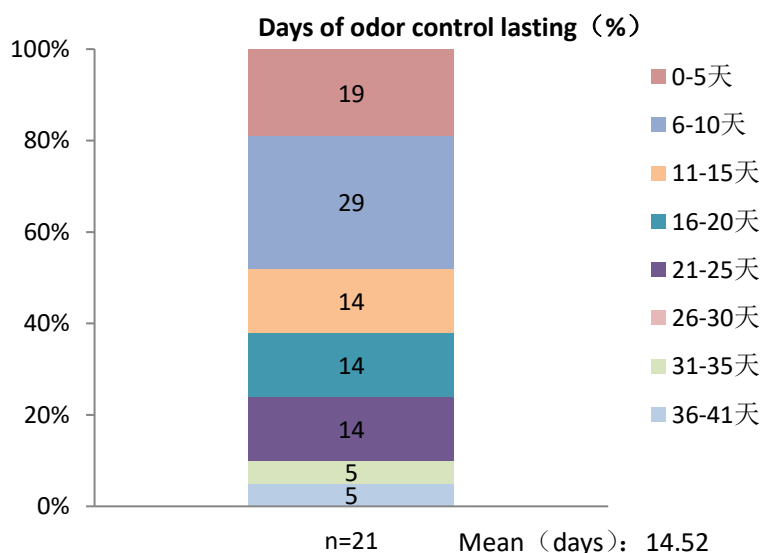


Table 8 Suitability of long-term usage (Total sample: n=21)

	Frequency	Percentage %
Yes, it's suitable	18	86
No, It's not suitable	1	5
Not sure	2	10

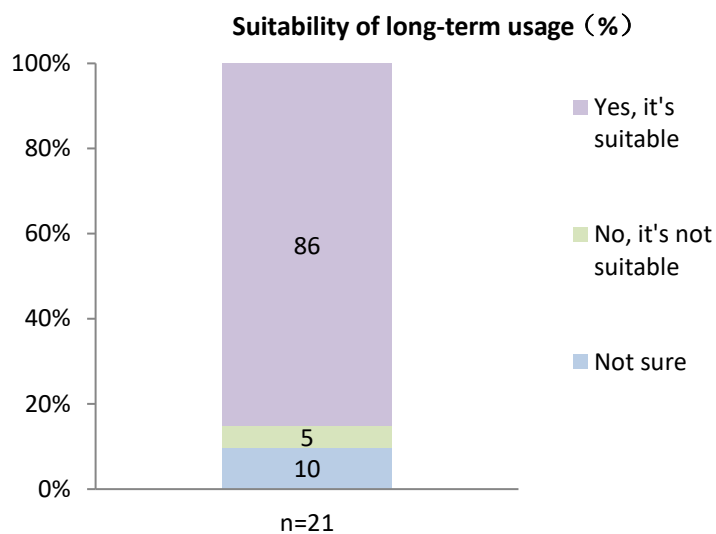


Table 9 Purchase intent (Total sample: n=21)

	Frequency	Percentage %
Want to buy and use it	20	95
Don't want to buy and use it	1	5

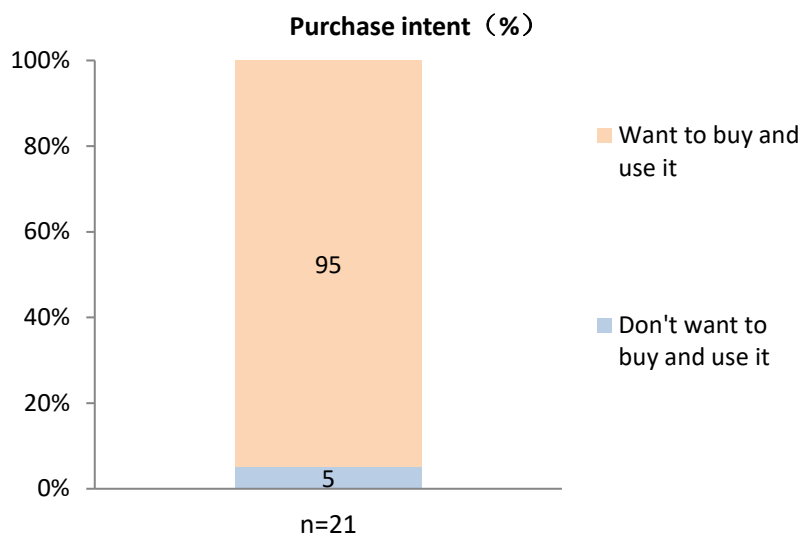
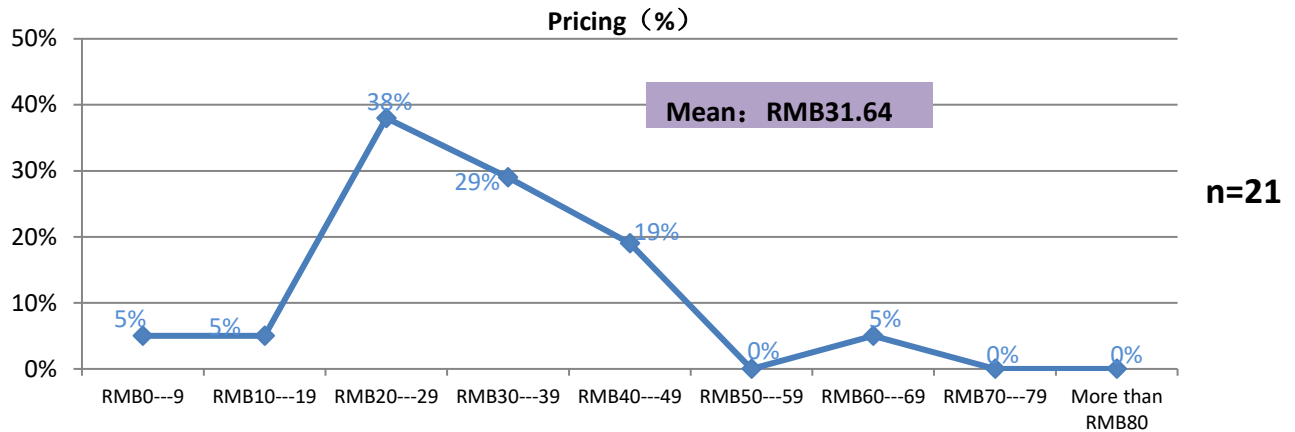


Table 10 Pricing (Total sample: n=21)

	Frequency	Percentage %
RMB0---9	1	5
RMB10---19	1	5
RMB20---29	8	38
RMB30---39	6	29
RMB40---49	4	19
RMB50---59	-	-

	Frequency	Percentage %
RMB60---69	1	5
RMB70---79	-	-
More than RMB80	-	-
Mean (RMB)	31.64	

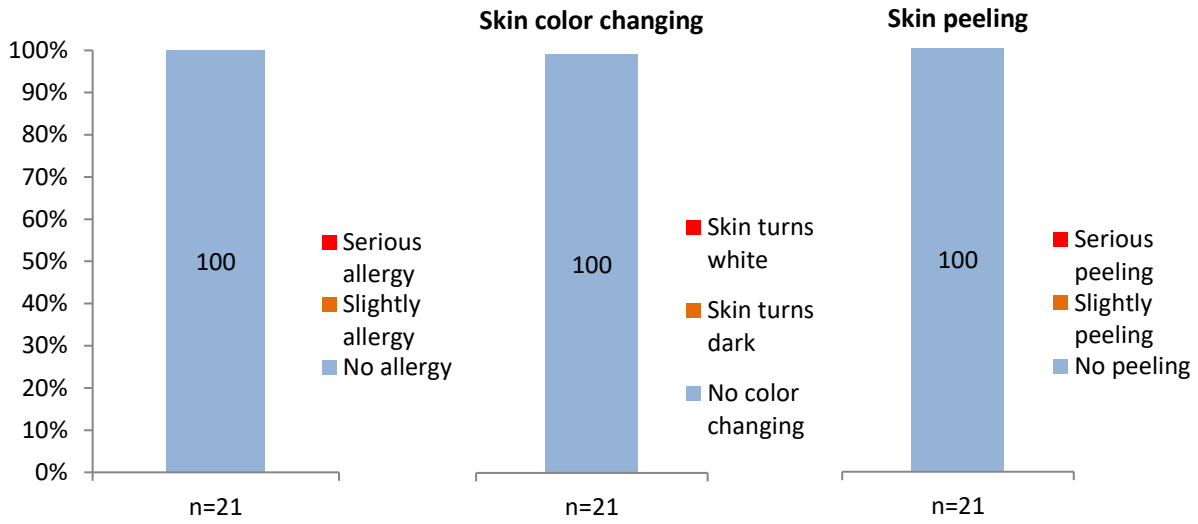


12.3. Record of skin condition after use. In table 11. More details in appendix D

Table 11 Record of skin condition after use (Total sample: n=21)

Skin condition		Frequency	Percentage %	Skin adverse timing
Allergy	Serious allergy	-	-	No allergy
	Slightly allergy	-	-	
	No allergy	21	100	
Skin color changing	Skin turns white	-	-	No color changing
	Skin turns dark	-	-	
	No color changing	21	100	
Skin peeling	Serious peeling	-	-	No skin peeling
	Slightly peeling	-	-	
	No peeling	21	100	

Skin allergy



12. Conclusion

21 volunteers used up the test product at one time. Observed skin condition and checked if the odor appeared every day. When the odor appeared, we interviewed the volunteers with questionnaire via phone call. Test result is as following:

- 95% users like the product (like very much/like relatively/like a bit);
- Product provides odor control effect for 14.52 days at average. 81% are more than 5 days. 52% are more than 10 days. 24% are more than 20 days. 10% are more than 30 days;
- 95% users claimed they like the product on its long lasting odor control effect. 86% users like the product on its convenient usage. 43% users like the product on good smell;
- 86% volunteers think the products are suitable for long term use;
- 95% volunteers are willing to purchase the product. Most of them (86%) have purchase intent at price range of RMB20-49 (RMB31.64 at average among all);
- There are no allergy/color changing/skin peeling cases.

Prepared And Checked By:
For Intertek Testing Services Ltd., Shanghai



King Wang
Assistant Manager



2022-2-22

Appendix A Volunteer Information

No.	Name	Sex	Age	Occupation	Finished or not
01	LXL	Female	28	Road administration	Yes
02	ML	Female	37	Administration	Yes
03	WJJ	Male	31	Procurement	Yes
04	LF	Female	54	Office clerk	Yes
05	LYW	Female	34	HR	Yes
06	LJL	Female	48	Ceramics trading	Yes
07	FYF	Male	30	Operation manager	Yes
08	QBL	Male	59	Department manager	Yes
09	ZZP	Male	34	Worker	Yes
10	LX	Male	52	Private business owner	Yes
11	NML	Male	41	Private ownership	Yes
12	HAS	Male	27	Administration	Yes
13	FSY	Female	22	Free lancer	Yes
14	WJJ	Female	30	Office clerk	Yes
15	YYM	Male	28	Electronic information administration	Yes
16	WSM	Female	22	Teacher	Yes
17	BS	Male	42	Subway station manager	Yes
18	FYF	Female	24	Accountant	Yes
19	LFS	Male	23	Teacher of Japanese	Yes
20	XL	Female	45	Engineer	Yes
21	ZTS	Male	24	Machinery industry	Yes

Appendix B Clean Data

No.	Date of usage	Date of odor appeared	A0 Days of odor control	A1 Overall liking	A2 If allergy	Days after usage	Lasting days	A3 If color changing
01	2021/12/4	2021/12/7	3	7	1			1
02	2021/12/5	2021/12/9	4	6	1			1
03	2021/12/4	2021/12/9	5	6	1			1
04	2021/12/4	2021/12/10	6	6	1			1
05	2021/12/5	2021/12/10	5	7	1			1
06	2021/12/4	2021/12/13	9	7	1			1
07	2021/12/4	2021/12/13	9	6	1			1
08	2021/12/6	2021/12/15	9	6	1			1
09	2021/12/6	2021/12/15	9	6	1			1
10	2021/12/7	2021/12/15	8	7	1			1
11	2021/12/5	2021/12/16	11	3	1			1
12	2021/12/5	2021/12/19	14	6	1			1
13	2021/12/5	2021/12/20	15	6	1			1
14	2021/12/4	2021/12/21	17	6	1			1
15	2021/12/5	2021/12/22	17	6	1			1
16	2021/12/3	2021/12/23	20	6	1			1
17	2021/12/4	2021/12/28	24	6	1			1
18	2021/12/4	2021/12/29	25	6	1			1
19	2021/12/5	2021/12/30	25	7	1			1
20	2021/12/4	2022/1/7	34	6	1			1
21	2021/12/6	2022/1/11	36	6	1			1

No.	A4 If peeling	Days after usage	Lasting days	A5 Suitability of long-term use	A6-1 Long odor control	A6-2 Good packaging	A6-3 Good smell	A6-4 Convenient usage	A7 Purchase intent	A8 Pricing
01	1			1	1	2	3	4	1	4
02	1			1		2	3	4	1	4
03	1			1	1		3	4	1	4
04	1			1	1		3	4	1	4
05	1			1	1			4	1	3
06	1			1	1		3	4	1	5
07	1			1	1	2		4	1	5
08	1			1	1		3	4	1	3
09	1			1	1				1	3
10	1			1	1	2	3	4	1	4
11	1			2	1			4	2	3
12	1			1	1	2			1	3
13	1			1	1	2		4	1	5
14	1			3	1			4	1	2
15	1			1	1	2	3	4	1	5
16	1			1	1				1	3
17	1			1	1			4	1	3
18	1			1	1			4	1	7
19	1			1	1		3	4	1	3
20	1			1	1			4	1	1
21	1			3	1			4	1	4

Appendix C Questionnaire Design

Record the date of usage: ____ / ____ / ____

Record the date of odor appearance: ____ / ____ / ____

Odor control lasting days: ____ Days

A1. Which of the following item can describe your overall liking on this armpit deodorant product? [Read out the choices. Don't read out the number. Single answer]

Like it very much7

Like it relatively6

Like it a bit5

Neither like nor dislike.....4

Dislike it a bit3

Dislike it relatively2

Dislike it very much1

A2. Did your skin get any allergy? [Read out the choices. Don't read out the number. Single answer]

Serious allergy.....3

Slightly allergy2

No allergy.....1

If chose 2/3:

Record: How many days after usage, the allergy appeared? ____ Days

Record: How many days the allergy lasted for? ____ Days (If lasted till the end of the test period, then record till the ending date)

A3. Did your skin get any color changing? [Read out the choices. Don't read out the number. Single answer]

Skin turns white3

Skin turns dark2

No color changing1

If chose 2/3:

Record: How many days after usage, the color changing appeared? ____ Days

Record: How many days the color changing lasted for? ____ Days (If lasted till the end of the test period, then record till the ending date)

A4. Did your skin get any peeling symptom? [Read out the choices. Don't read out the number. Single answer]

Serious peeling3

Slightly peeling2

No peeling1

If chose 2/3:

Record: How many days after usage, the skin peeling appeared? ____ Days

Record: How many days the skin peeling lasted for? ____ Days (If lasted till the end of the test period, then record till the ending date)

A5. Is the product suitable for long-term usage? [Read out the choices. Don't read out the number. Single answer]

Yes, it's suitable1

No, it's not suitable2

No sure3

A6. What do you like about the product? [Read out the choices. Don't read out the number. Multiple answers]

Long lasting odor control1

Good packaging design2

Good smell3

Convenient usage4

Record: Anything else? (Record the key points)

A7. Do you want to buy and use it? [Read out the choices. Don't read out the number. Single answer]

Want to buy and use it.....1

Don't want to buy and use it2

A8. Ignoring the packaging, just referring the effect, comparing similar products in the market, at what price would you buy it? [Read out the choices. Don't read out the number. Single answer]

RMB0---91

RMB10---192

RMB 20---293

RMB 30---394

RMB 40---495

RMB 50---596

RMB60---697

RMB 70---798

More than RMB809

Age: _____y.o. Gender: _____ Occupation: _____

Thanks and end the interview

Appendix D Statistic Analysis of Data

	Frequency	Percentage %
Base- ALL	n=21	n=21
<u>[A0] Odor control lasting days</u>		%
0-5	4	19
6-10	6	29
11-15	3	14
16-20	3	14
21-25	3	14
26-30	-	-
31-35	1	5
36-41	1	5
Mean	14.52	14.52
<u>[A1] Which of the following item can describe your overall liking on this armpit deodorant product?</u>		%
T3B (5-7)	20	95
T2B (6-7)	20	95
Mean	6.1	6.1
<u>[A2] Did your skin get any allergy?</u>		%
Serious allergy (3)	-	-
Slightly allergy (2)	-	-
No allergy (1)	21	100
	Frequency	Percentage %
	n=0	n=0
<u>[A2a] How many days after usage, the allergy appeared?</u>		%
1 Days	-	-
2 Days	-	-
3 Days	-	-
4 Days	-	-
5 Days	-	-
6 Days	-	-
7 Days	-	-
8 Days	-	-
<u>[A2b] How many days the allergy lasted for?</u>		%
1 Days	-	-
2 Days	-	-
3 Days	-	-
4 Days	-	-
5 Days	-	-
6 Days	-	-
7 Days	-	-

8 Days	-	-
	Frequency	Percentage %
	n=21	n=21
<u>[A3] Did your skin get any color changing?</u>		%
Skin turns white (3)	-	-
Skin turns dark (2)	-	-
No color changing (1)	21	100
<u>[A4] Did your skin get any peeling symptom?</u>		%
Serious peeling (3)	-	-
Slightly peeling (2)	-	-
No peeling (1)	21	100S
	Frequency	Percentage %
	n=0	n=0
<u>[A4a] How many days after usage, the skin peeling appeared?</u>		%
1 Days	-	-
2 Days	-	-
3 Days	-	-
4 Days	-	-
5 Days	-	-
6 Days	-	-
7 Days	-	-
8 Days	-	-
<u>[A4b] How many days the skin peeling lasted for?</u>		%
1 Days	-	-
2 Days	-	-
3 Days	-	-
4 Days	-	-
5 Days	-	-
6 Days	-	-
7 Days	-	-
8 Days	-	-
	Frequency	Percentage %
	n=21	n=21
<u>[A5] Is the product suitable for long-term usage?</u>		%
Yes, it's suitable	18	86
No, It's not suitable	1	5
Not sure	2	10
<u>[A6] What do you like about the product?</u>		%
Long lasting odor control	20	95s
Good packaging design	7	33
Good smell	9	43
Convenient usage	18	86

[A7] Do you want to buy and use it?		%
Want to buy and use it	20	95
Don't want to buy and use it	1	5
[A8] Ignoring the packaging, just referring the effect, comparing similar products in the market, at what price would you buy it?		%
RMB0---9 (4.5)	1	5
RMB10---19 (14.5)	1	5
RMB20---29 (24.5)	8	38
RMB30---39 (34.5)	6	29
RMB40---49 (44.5)	4	19
RMB50---59 (54.5)	-	-
RMB60---69 (64.5)	1	5
RMB70---79 (74.5)	-	-
More than RMB80 (80)	-	-
Mean	31.64	31.64

Appendix E Adverse Event

None

End of report

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