Issue: NB1508001

August 28, 2015

To: RAYCOP JAPAN INC.

AIKEN Co., Ltd.

2-710 Amakoda, Moriyama-ku, Nagoya-shi (Handa Office) 2-65 Hanada-cho, Handa-shi, Aichi Prefecture

TEL (0569) 28-4738 Zip code: 475-0088

Sample type	Cleaner for bedding	Reception method	Received (2015/08/12)					
Name of the sample	RAYCOP RS2-100 Used in Futon m	attress mode						
(Trade name, etc.)								
Study name	Cedar pollen recovery performance test	Cedar pollen recovery performance test						
Test material	Test bedding: Futon mattress ¹	est bedding: Futon mattress ¹						
	Bedding setup: Mattress ² , bed pad ³							
	(1) Size: 100 cm × 210 cm; Surface fabr	ic: polyester 100%; Inn	er fabric: non-woven					
	polypropylene; Filling: polyester 100%;	Weight: cotton roll app	roximately 1.6 kg; Hard					
	cotton: approximately 1.6 kg							
	(2) Size: 100 cm × 200 cm × 5 cm; Surfa	ace fabric: polyester 100	0%; Filling: polyester					
	100%							
	(3) Size: 100 cm × 200 cm; Surface fabr	ic: polyester 100%; Fill	ing: polyester 100%					
(Note) Collected and	brought-in samples are described as appo	ointed by the requestor.						

Here is a report on study results of the above sample.

Test bedding	Vacuum time	Rema	Remaining amount of cedar pollen allergen (Cry j1) *				
		1	2	3	4	Mean	rate (%)
Futon	0 minute	12.21	6.56	10.27	12.340	10.35	-
mattress	1 minute	0.17	0.016	0.010	0.021	0.016	99.8
	3 minutes	ND	ND	ND	ND	< 0.014	99.9<
	5 minutes	ND	0.014	ND	ND	< 0.014	99.9<

^{*} Unit: $\mu g/10 \text{ cm} \times 10 \text{ cm} \times 2 \text{ sheets}$ ND: Less than the lower limit of quantification Lower limit of quantification = 14 ng

[Remarks]

- O See Attachment for the test method and calculation method
- O Analytical method: Sandwich ELISA

Issue: NB1508002

August 28, 2015

To: RAYCOP JAPAN INC.

AIKEN Co., Ltd.

2-710 Amakoda, Moriyama-ku, Nagoya-shi (Handa Office) 2-65 Hanada-cho, Handa-shi, Aichi Prefecture

TEL (0569) 28-4738 Zip code: 475-0088

Sample type	Cleaner for bedding	Reception method	Received (August12,2015)					
Name of the sample	RAYCOP RS2-100 Used in Futon mat	RAYCOP RS2-100 Used in Futon mattress mode						
(Trade name, etc.)								
Study name	Cedar pollen recovery performance test	Cedar pollen recovery performance test						
Test material	Comforter ¹							
	Environment of usage: Mattress ² , bed pa	ad^3						
	(1) Size: 150 cm × 210 cm; Surface fabr	ic: polyester 100%; Inn	er fabric: non-woven					
	polypropylene; Filling: polyester 10	0%; Weight: Approxim	ately 1.2 kg					
	(2) Size: 100 cm × 200 cm × 5 cm; Surfa	ace fabric: polyester 100	0%; Filling: polyester 100%					
	(3) Size: 100 cm × 200 cm; Surface fabr	ic: polyester 100%; Fill	ing: polyester 100%					
(Note) Collected and brought-in samples are described as appointed by the requestor.								

Here is a report on study results of the above sample.

Test bedding	Vacuum time	Rema	Remaining amount of cedar pollen allergen (Cry j1) *				
		1	2	3	4	Mean	(%)
Comforter	0 minute	20.28	18.42	13.56	19.80	18.020	-
	1 minute	ND	ND	0.015	ND	< 0.014	99.9<
	3 minutes	ND	ND	ND	ND	< 0.014	99.9<
	5 minutes	ND	ND	ND	ND	< 0.014	99.9<

^{*} Unit: μ g/10 cm \times 10 cm \times 2 sheets ND: Less than the lower limit of quantification Lower limit of quantification = 14 ng

[Remarks]

- O See Attachment for the test method and calculation method.
- O Analytical method: ELISA



Issue: NB1508003

August 28, 2015

To: RAYCOP JAPAN INC.

AIKEN Co., Ltd. 2-710 Amakoda, Moriyama-ku, Nagoya-shi (Handa Office) 2-65 Hanada-cho, Handa-shi, Aichi Prefecture TEL (0569) 28-4738 Zip code: 475-0088

Sample type	Cleaner for bedding	Reception method	Received (August12,2015)					
Name of the sample	RAYCOP RS2-100 Used in down c	omforter mode						
(Trade name, etc.)								
Study name	Cedar pollen recovery performance tes	t						
Test material	Down comforter ¹	Down comforter ¹						
	Environment of usage: mattress ² , bed pad ³							
	(1) Size: 150 cm × 210 cm; Surface fab	oric: polyester 100%; Li	ning cloths: polyester100%;					
	Filling: down 50%; Feather 50%; Weig	ht of filling: approxima	tely 1.1 kg					
	(2) Size: 100 cm × 200 cm × 5 cm; Sur	face fabric: polyester 10	00%; Filling: polyester					
	100%							
	(3) Size: 100 cm × 200 cm; Surface fab	oric: polyester 100%; Fi	lling: polyester 100%					
(Note) Collected and	brought-in samples are described as app	oointed by the requestor						

Here is a report on study results of the above sample.

Test bedding	Vacuum time	Rema	Remaining amount of cedar pollen allergen (Cry j1) *				
		1	2	3	4	Mean	(%)
Down	0 minute	6.64	5.73	10.06	8.14	7.64	-
comforter	1 minute	0.022	0.017	0.020	0.017	0.019	99.8
	3 minutes	ND	ND	ND	ND	< 0.014	99.8<
	5 minutes	ND	ND	ND	ND	< 0.014	99.8<

* Unit: μ g/10 cm \times 10 cm \times x 2 sheets ND: Less than the lower limit of quantification Lower limit of quantification = 14 ng

[Remarks]

- O See Attachment for the test method and calculation method.
- O Analytical method: Sandwich ELISA



Issue: NB1508004

August 28, 2015

To: RAYCOP JAPAN INC.

AIKEN Co., Ltd. 2-710 Amakoda, Moriyama-ku, Nagoya-shi (Handa Office) 2-65 Hanada-cho, Handa-shi, Aichi Prefecture TEL (0569) 28-4738 Zip code: 475-0088

Sample type	Cleaner for bedding	Reception method	Received (August 12, 2015)				
Name of the	RAYCOP RS2-100 Used in down comforter mode						
sample (Trade							
name, etc.)							
Study name	Cedar pollen recovery performance tes	t					
Test material	Cotton blanket ¹						
	Environment of usage: Mattress ² , bed	pad ³					
	(1) Size: 140 cm × 190 cm; polyester 9	90%, cotton 10%					
	(2) Size: 100 cm × 200 cm x 5 cm; Suc	drface fabric: polyester	100%; Filling: polyester 100%				
	(3) Size: 100 cm × 200 cm; Surface fall	oric: polyester 100%; Fi	illing: polyester 100%				
(Note) Collected and brought-in samples are described as appointed by the requestor.							

Here is a report on study results of the above sample.

Test bedding	Vacuum time	Rema	Remaining amount of cedar pollen allergen (Cry j1) *				Removal
		1	2	3	4	Mean	rate (%)
Cotton	0 minute	8.88	5.96	5.90	8.58	7.33	-
blanket	1 minute	0.540	0.388	0.443	0.295	0.417	94.3
	3 minutes	0.064	0.092	0.120	0.068	0.086	98.8
	5 minutes	0.050	0.058	0.079	0.094	0.070	99.0

* Unit: μg/10 cm x 10 cm x 2 sheets

[Remarks]

- O See Attachment for the test method and calculation method
- O Analytical method: sandwich ELISA



Issue: NB1508005

August 28, 2015

To: RAYCOP JAPAN INC.

AIKEN Co., Ltd. 2-710 Amakoda, Moriyama-ku, Nagoya-shi (Handa Office) 2-65 Hanada-cho, Handa-shi, Aichi Prefecture TEL (0569) 28-4738 Zin code: 475-0088

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Sample type	Cleaner for bedding	Reception method	Received (August 12, 2015)				
Name of the	RAYCOP RS2-100 Used in down co	mforter mode					
sample (Trade							
name, etc.)							
Study name	Cedar pollen recovery performance tes	Cedar pollen recovery performance test					
Test material	Blanket ¹ ,						
	Environment of usage: Mattress ² , bed	pad ³					
	(1) Size: 140 cm × 200 cm: Pile fabric	: acrylic 70%, rayon 30	%; Weaving threads: polyester				
	100%						
	(2) Size: 100 cm × 200 cm × 5 cm; Su	rface fabric: polyester 1	00%; Filling: polyester 100%				
	(3) Size: 100 cm × 200 cm; Surface fa	bric: polyester 100%; F	illing: polyester 100%				
(Note) Collected and brought-in samples are described as appointed by the requestor.							

Here is a report on study results of the above sample.

Test bedding	Vacuum time	Rema	Remaining amount of cedar pollen allergen (Cry j1) *				
		1	2	3	4	Mean	(%)
Blanket	0 minute	6.12	5.21	5.21	4.61	5.29	-
	1 minute	0.211	0.048	0.047	0.159	0.116	97.8
	3 minutes	ND	ND	0.057	ND	< 0.046	99.1<
	5 minutes	ND	0.085	0.045	ND	< 0.054	99.0<

^{*} Unit: $\mu g/10 \text{ cm} \times 10 \text{ cm} \times 2 \text{ sheets}$ ND: Less than the lower limit of quantification Lower limit of quantification = 42 ng

[Remarks]

- O See Attachment for the test method and calculation method
- Analytical method: Sandwich ELISA

