

Declaration of Conformity

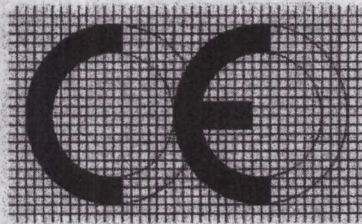
According to

RoHS Directive 2011/65/EU

For the following

Product : VITAMIN SHOWER FILTER
Model Name : SHOWERING
Variant Model Name : -
Company Name : RAWGANIC
Company Address : 30-22, Tapgiam-gil Ochang-eup, Cheongwon-gu,
Cheongju-si, Chungcheongbuk-do(28131) Rep of KOREA
Manufactured Name : RAWGANIC
Manufactured Address : 30-22, Tapgiam-gil Ochang-eup, Cheongwon-gu,
Cheongju-si, Chungcheongbuk-do(28131) Rep of KOREA

This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration does not contain any of the substances in exceed of the maximum concentration values in EU Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011, unless the substances are in an application that is exempt under RoHS.



The standards relevant for the evaluation of RoHS requirements are as follows:

EN 50581:2012 : Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

EN 62321:2009 : Electrotechnical products - Determination of levels of six regulated substances(lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)

원본대조필



Date of issue: Dec 11, 2019

(Name and signature of authorized person)



TEST REPORT

 SNS EMC Laboratory Co., Ltd. (#B09, #B11, Ojeon-dong), 19, Ojeonggongseop-gil, Uiwang-si, Gyeonggi-do, 16072 Korea Tel : +82-31-526-2001 Fax : +82-31-455-2066 http://www.sns-emc.co.kr	Report No. : RoHS-N1912003 Page (1)/(10)	
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1. Client

- o Name : RAWGANIC
- o Address : 30-22, Tapgiam-gil Ochang-eup, Cheongwon-gu, Cheongju-si,
Chungcheongbuk-do(28131) Rep of KOREA

2. Manufacturer : RAWGANIC

3. Product Name : VITAMIN SHOWER FILTER

4. Model Name : SHOWERING

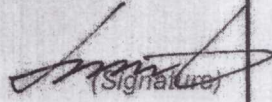
5. Date of Test : Dec 11, 2019

6. Test Method Used : EN 50581:2012, IEC 62321-1:2013, IEC 62321-3-1:2013

7. Test Results : Pass

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This laboratory is not accredited for the test results marked *.

Affirmation	Tested by Name : Junghoon, Lee  (Signature)	Technical Manager Name : Sangmin, Lee  (Signature)
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RoHS TEST REPORT
European Directive 2011/65/EU
Evaluation of RoHS Requirements for Electrical and Electronic Equipment

Report Number	RoHS-N1912003
Date of issue	Dec 11, 2019
Total number of pages	10Pages
Applicant name	RAWGANIC
Address	30-22, Tapgiam-gil Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do(28131) Rep of KOREA
Manufacturer name	RAWGANIC
Address	30-22, Tapgiam-gil Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do(28131) Rep of KOREA
Test specification:	
Standard	EN 50581:2012, IEC 62321-1:2013, IEC 62321-3-1:2013
Non-standard test method	N/A
Testing Laboratory	SNS EMC Laboratory Co., Ltd.
Address	(#B09, #B11, Ojeon-dong), 19, Ojeonggonggeop-gil, Uiwang-si, Gyeonggi-do, 16072, Korea
Product name	VITAMIN SHOWER FILTER
Model name	SHOWERING
List of Attachments (including a total number of pages in each attachment):	
Attachment 1	
Attachment 2	
Testing:	
Date of receipt of test item	Dec 03, 2019
Date (s) of performance of tests	Dec 09, 2019 ~ Dec 11, 2019

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Clause	Requirement + Test	Result - Remark	Verdict
1	RoHS Compliance based on test reports		
1.1	Review of component's test reports according to BOM		P
1.1.1	Dose evaluated product is composed by components which is listed in BOM?	Checked	P
1.1.2	Dose each components is complied with the requirement of employed directive or manufacturer declared limits?	Checked	P
1.2	Review of verification test reports according sampling		P
1.2.1	If it was performed the item 1.1, did sampling was performed in appropriate?	Refer to Attachment 3	P
1.2.2	If it was not performed the item 1.1, did it was fully considered the materials of component and dose it was performed the sampling which is enough to represent the characteristics of population?		N/A
1.2.3	Is it complied with the requirements of employed directive or manufacturer declares limits for sample tested?		P
1.3	Requirements of test report		P
1.3.1	Is it included the information of manufacturer, sample, test lab or etc?	Refer to Attachment 2	P
1.3.2	Is it clearly specified the test object as the part of components or product?		P
1.3.3	Is it described the information of directive or standards of test methods?		P
1.3.4	Is it described the results with accurately for interpretation, using or etc?		P
1.3.5	Is it confirmed the validity of test equipment and information of calibration?		P
1.4	Other information		
	Directive 2011/65/EU EN 50581:2012 IEC 62321-1:2013 IEC 62321-3-1:2013 EN 62474:2012 IEC/TR 62476:2010		

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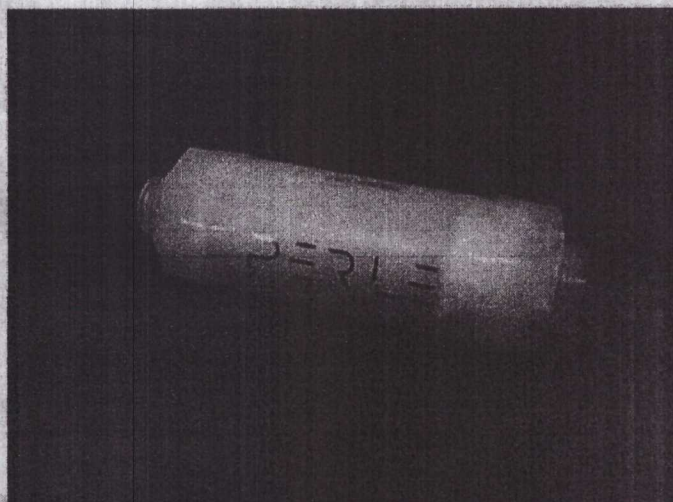
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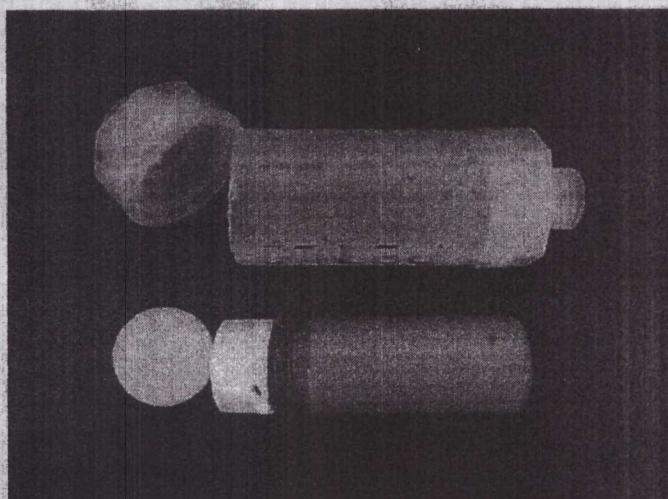
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Attachment 1 – Photographs



Front View



Inner View

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Attachment 2 – Test method & Lab Information**1. General**

1.1 Standard : EN 50581:2012, EN 62321-1:2013, EN 61321-3-1

1.2 Applied sampling criteria

- Kind of components could be disassembled mechanically by using disassembly tools
- High risk components

2. Laboratory information

2.1 Laboratory name : SNS EMC Laboratory Co., Ltd.

2.2 Address : (#B09, #B11, Ojeon-dong), 19, Ojeonggonggeop-gil, Uiwang-si, Gyeonggi-do, 16072, Korea

2.3 Tel. : +82-31-526-2001

2.4 FAX : +82-31-455-2066

2.5 Facilities used

- X-Ray Fluorescence Spectrometer (XRF)
- Manufacturer name : ISP Co., Ltd.
- Model name : iEDX-100A

3. Product Remark

Specification	Product name	VITAMIN SHOWER FILTER
	Model name	SHOWERING
	Variant model name	-

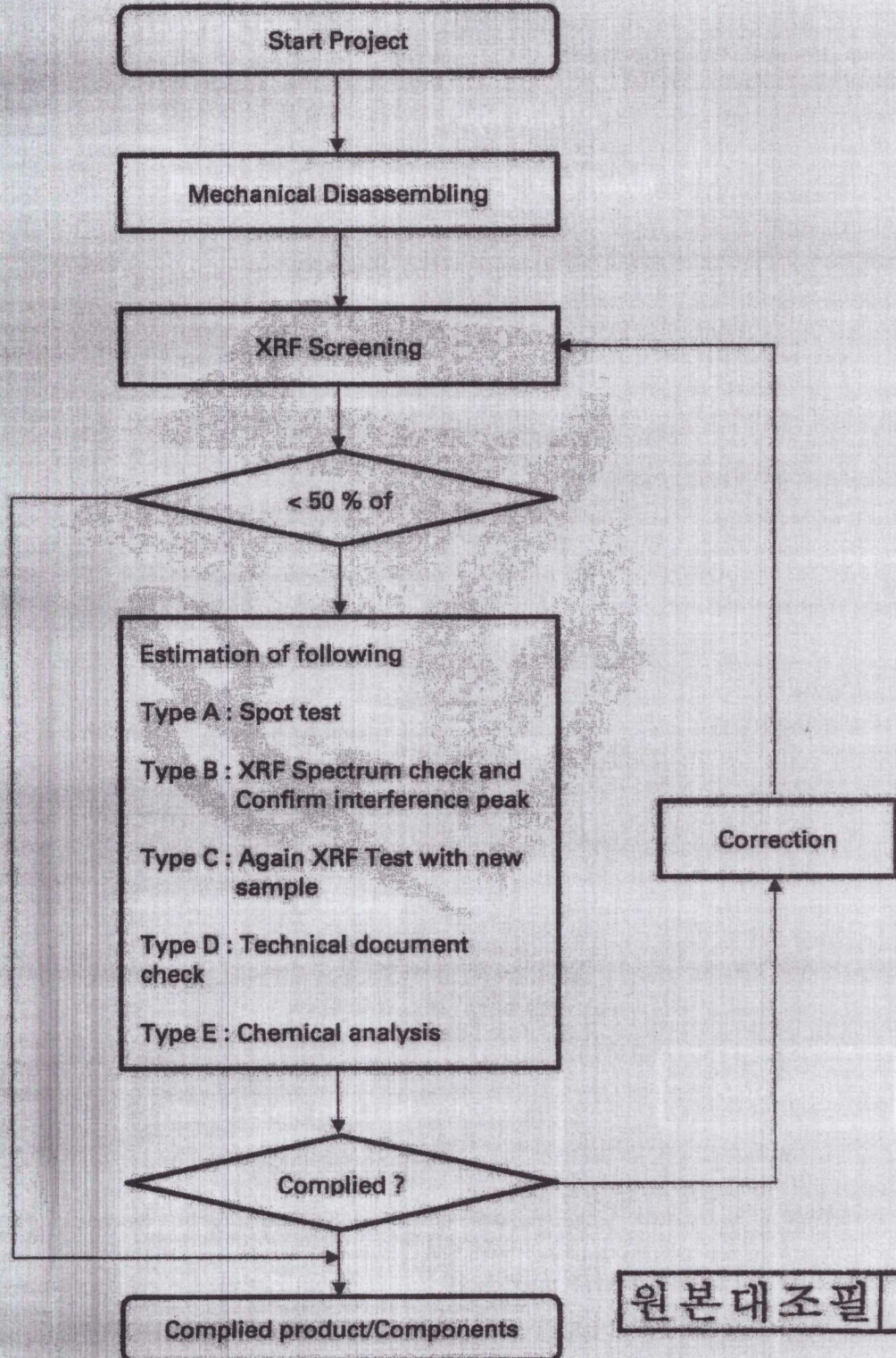
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Attachment 3 – Verification XRF Test Result



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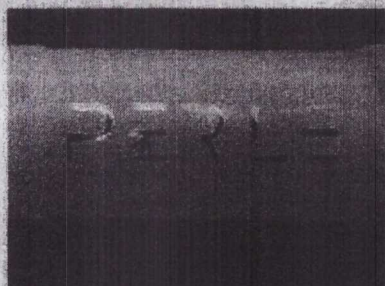


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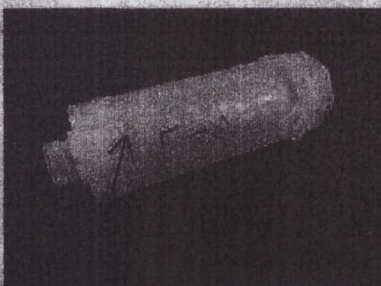
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Attachment 3 – Verification XRF Test Result

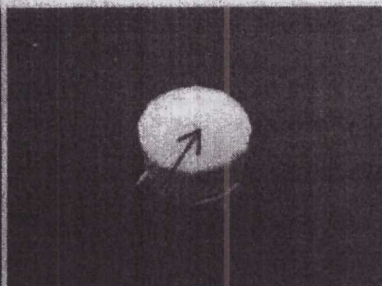
No.	Part name	Supplier	XRF Data (mg/kg)					Estimation	Result
			Cb	Pb	Hg	Br	Cr		
1.0	print		0	0	0	0	0	N/A	P
1.1	CASE		0	0	0	0	0	N/A	P
1.2	stopper		0	0	0	0	0	N/A	P



1.0



1.1



1.2

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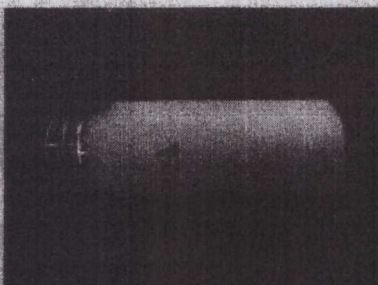
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Attachment 3 – Verification XRF Test Result

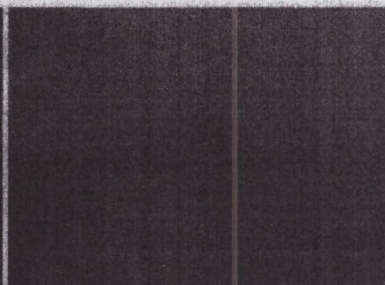
No.	Part name	Supplier	XRF Data (mg/kg)					Estimation	Result
			Cb	Pb	Hg	Br	Cr		
1.3	Sponge		0	0	0	0	0	N/A	P
1.4	Glass		0	0	0	0	0	N/A	P
1.5	Rubber Parking		0	0	0	0	0	N/A	P



1.3



1.4



1.5

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Attachment 4 – Remark

1. Results are obtain by XRF in regulated substances according to EN 62321-3-1:2013.
2. It is the result in total Br while test item in restricted substances in PBBs & PBDEs.
3. Screening limits mg/kg for regulated elements in various matrices.

Element	Polymers	Metals	Composite material
Cd	$BL \leq (70 - 3\sigma) < X$ $< (130 + 3\sigma) \leq OL$	$BL \leq (70 - 3\sigma) < X$ $< (130 + 3\sigma) \leq OL$	$LOD < X < (150 + 3\sigma) < OL$
Pb	$BL \leq (700 - 3\sigma) < X$ $< (1\ 300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X$ $< (1\ 300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X$ $< (1\ 500 + 3\sigma) \leq OL$
Hg	$BL \leq (700 - 3\sigma) < X$ $< (1\ 300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X$ $< (1\ 300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X$ $< (1\ 500 + 3\sigma) \leq OL$
Br	$BL \leq (300 - 3\sigma) < X$	N/A	$BL \leq (250 - 3\sigma) < X$
Cr	$BL \leq (700 - 3\sigma) < X$	$BL \leq (700 - 3\sigma) < X$	$BL \leq (500 - 3\sigma) < X$

* note : BL(Below limit), OL(Over Limit), X(Inconclusive)

4. The estimation criteria of XRF screening result applied 50 % of MCV(Maximum concentration value) which is defined in 2011/65/EU RoHS Directive.

Item	Cd	Pb	Hg	Br (PBBs, PBDEs)	Cr (Cr ³⁺)
MCV	100	1 000	1 000	1 000	1 000
Estimation criteria	50	500	500	500	500

- The additional investigation procedure is taken when doubtful test result detected more than 50 % of MCV

5. The type of estimation

Type A	Detected more than 50 % of MCV of total Cr and confirmed absence of Cr ³⁺ by diphenylcarbazide reagent.
Type B	Checked XRF spectrum and confirmed interference peak
Type C	Primary test result failed and replaced new ample. Finally confirmed through again XRF test.
Type D	Detected more than 50 % of MCV on total Br and confirmed absence PBBs/PBDEs through technical document of detected parts or material
Type E	Detected parts or material was conducted by chemical analysis

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Attachment 5 – Reference document

1. Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
2. EN 50581:2012
Technical documentation for the assessment of electrical and electronics products with respect to the restriction of hazardous of hazardous substances.
3. IEC 62321-1
Determination of certain substances in electrotechnical products – Part 1 : Introduction and overview
4. IEC 62321-3-1
Determination of certain substances in electrotechnical products – Part 3-1 : Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry
5. EN 62474:2012
Material declaration for products of and for the electrotechnical industry.
6. IEC/TR 62476:2010
Guidance for evaluation of products with respect to substance use restriction in electrical and electronic products.

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