

NANO-Q

Platinum&Gold nano-colloid generator



NANO-Q

Platinum Cosmetic Maker

The world's first platinum nano colloid generator **NANO-Q**

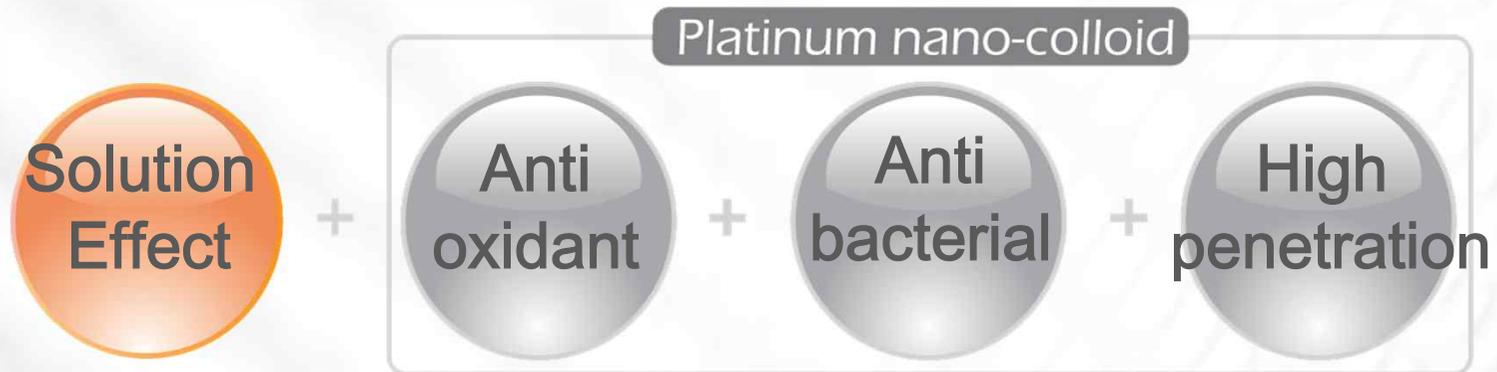
Nano-Q is a Platinum nano colloid generator which divides the platinum (equipped in the cartridge bottle) in to nano size and distributes in the liquid using liquid plasma Technology



NANO-Q

Platinum&Gold nano-colloid generator

You can expect antioxidant, anti bacterial and high penetration ability together with solution's own effect

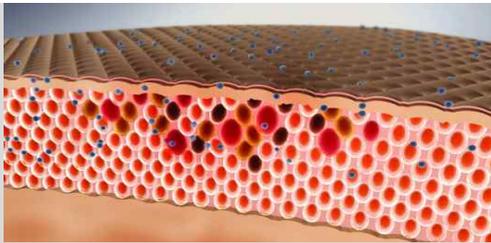


What is Platinum ?

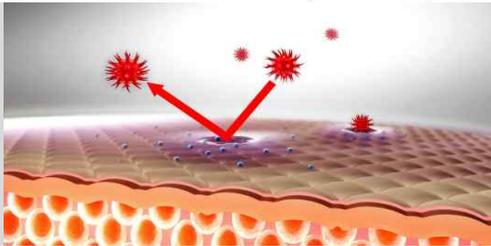


Platinum is a very precious and most stable element on the earth and therefore it has been using for various purpose including cosmetic and beauty products. It is not affected by chemical response such as acidity or alkalinity due to it's stable Characteristics.

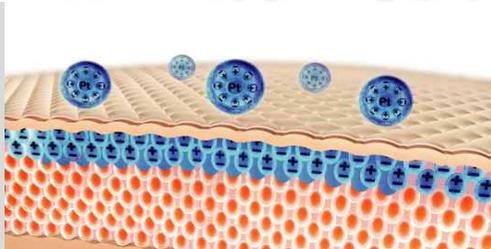
Main Effect of Platinum



1. Anti-Oxidant (Anti-Aging)
:Remove free radical oxygen



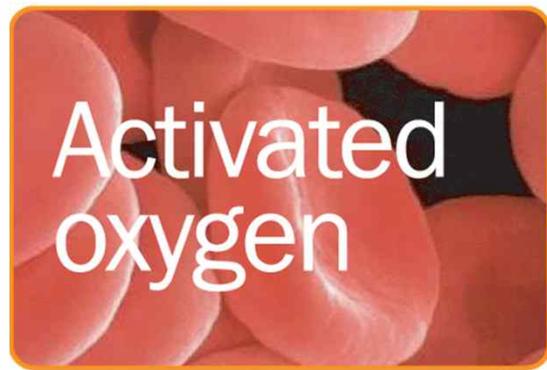
2. Anti-Bacterial



3. Deep Penetration (Nano size)

1. Anti-Oxidant

(by removing Activated oxygen)



Its anti-oxidation properties remove the activated oxygen.

1. Suppress the occurrence of skin lipid peroxidation by minimizing damage to the skin cells
2. With acts of catalyst, it removes four representative activated oxygen in the body, as well as all the active oxygen
3. Known to be excellent antioxidant substance much better than coenzyme Q10 antioxidant power

2. Anti-Bacterial



*Anti Bacterium Test Result With Platinum coated bone china (ceramics)

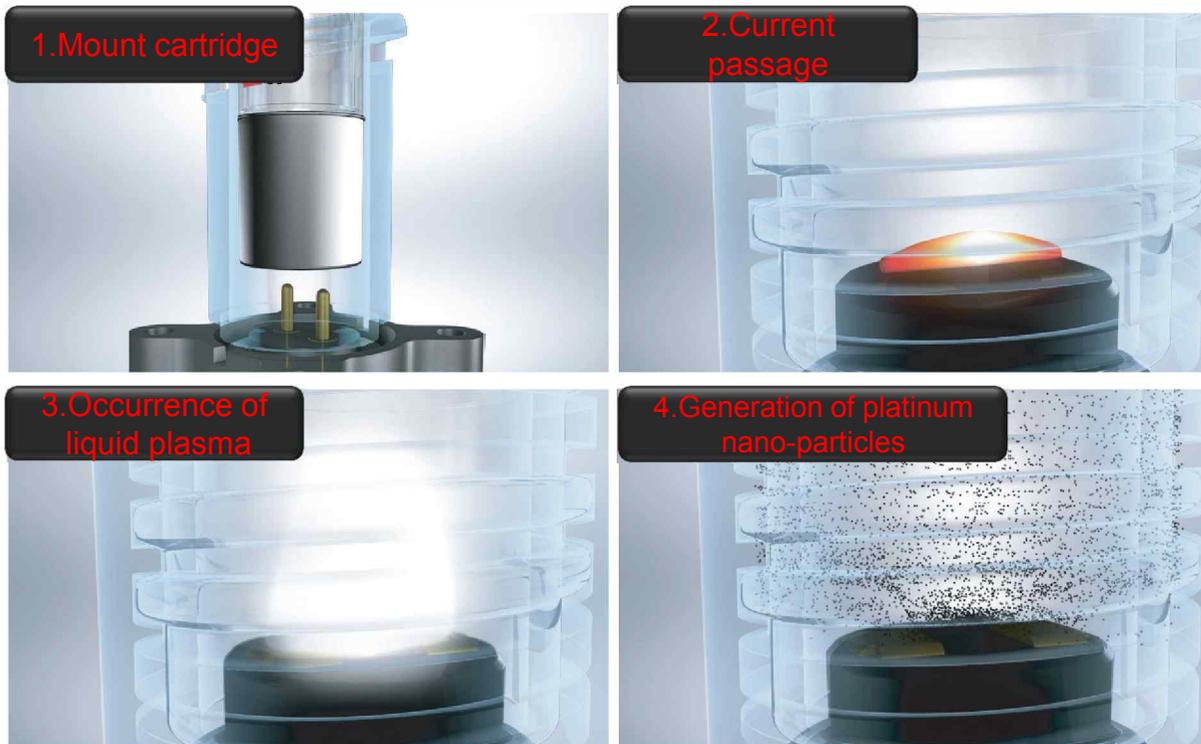


시험 항목	시험 결과	
(1) 항균력 (필름필착법, JIS Z 2801-2000) : 세균수/ml, 항균활성치:log, 세균감소율:%	BLANK	SAMPLE
균주1 : 초기균수	2.4×10^8	2.4×10^8
24시간후	4.7×10^8	<10
항균활성치	---	4.7
세균감소율	---	99.9
균주2 : 초기균수	1.9×10^8	1.9×10^8
24시간후	1.2×10^7	<10
항균활성치	---	6.1
세균감소율	---	99.9
주) 표준일련	: Stomacher 400 POLY-BAG	
시험조건	: 시험균액용 35±1℃, RH90±5% 에서 24시간 정치 배양후 균수 측정.	
사용할시균주	: 균주1 - <i>Staphylococcus aureus</i> ATCC 8538P. 균주2 - <i>Escherichia coli</i> ATCC 8739.	
< = 미만		
별첨 사진 참조		

Characteristics 1

Liquid Plasma Technology (Patent)

When the high density current passes through metal with its resistance characteristics maximized, plasma occurs from the resistance heat within a very short moment when the nano-colloid is generated with the produced nano particle dispersed.



Characteristics 2



99.99% PLATINUM (High Purity of Platinum)

Its more effective as the concentration is increased.

The Platinum concentration of platinum nano-colloid which is produced by Nanobuw is 6~9ppm.

⇒ It is ten times as high as the platinum concentration in general platinum cosmetics.

KTR
KOREA TESTING & RESEARCH INSTITUTE

TEST REPORT
(Additional Copy)

110-4, Dawson Dong, Joong-Gu, Ulsan, KOREA TEL 82-52-220-3000 FAX 82-52-220-3001

Report No : TAU-001079 Receipt Date : May 07, 2007
Client : Yong-Hoon Jeong Test Date : May 15, 2007
No. 13, Venture building, Changwon College, #196, Oudae-Dong, Changwon-Si, Gyeongnam, Korea.
NANDADVANCE CO., LTD.

Sample : Metallic Specimen(Platinum Wire)

TEST RESULTS				
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Pd	mg/kg		Not Detected	KS D 1836 : 2003(ICP)
Rh	mg/kg		39	KS D 1836 : 2003(ICP)
Ru	mg/kg		2	KS D 1836 : 2003(ICP)
Ir	mg/kg		2	KS D 1836 : 2003(ICP)
Au	mg/kg		Not Detected	KS D 1836 : 2003(ICP)
Ag	mg/kg		2	KS D 1836 : 2003(ICP)
Cu	mg/kg		2	KS D 1836 : 2003(ICP)
Fe	mg/kg		Not Detected	KS D 1836 : 2003(ICP)
Pt	wt%		99.99	KS D 1836 : 2003

USAGE : QUALITY CONTROL

NOTE : 1. The test result of this test report only limited in the sample and sample name presented by the client and do not guarantee the all products of the client.
2. This test report shall be used only within the purpose of its defined usage and also shall not be used for public relation, advertisement and suit without the KTR's written approval.

Prepared by *Byeong-Kyu Yu*
Tel: +82-52-220-3142
E-mail: ybkyu@ktr.or.kr

Reviewed by *Kyung-Taek Kim*
Technical Manager
E-mail: sweethome@ktr.or.kr

May 15, 2007
Korea Testing & Research Institute
President *Bowon Lee*

1 of Total 1 Page(s)

99.99% Platinum concentration digimatic

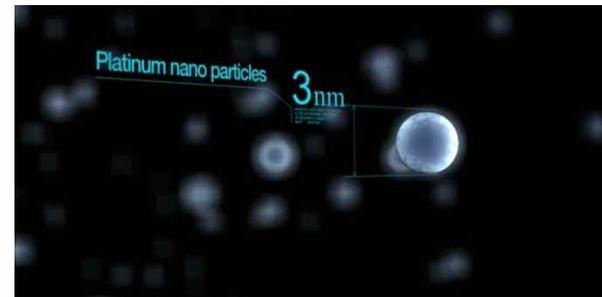
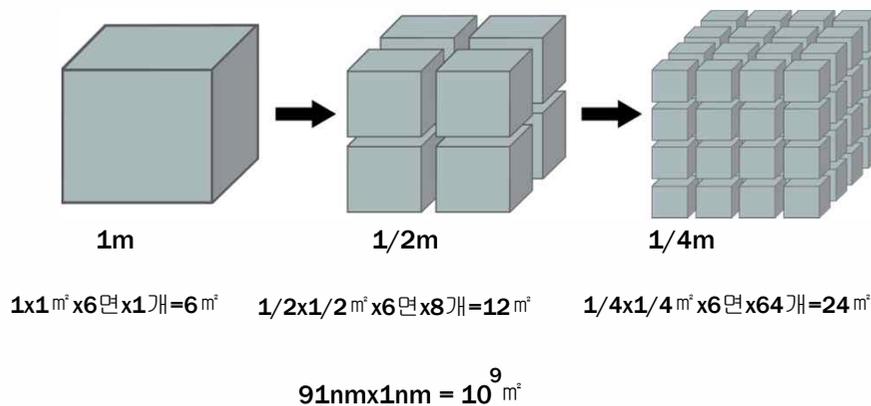
Platinum nano colloid generator **NANO-Q**

Characteristics 3

Effect of Nano Colloid

The average platinum nano-particles made by Nanobu:w is 3 nm.
⇒ If the particle size is small, it has a wide contact area with the skin and it is effective even if only a small quantity is used.

* TEM(Transmission Electron Microscopy) analysis



Applications

1. Cosmetics

- **Serum:** You can expect a brightening effect and anti-aging effects with platinum serum.
- **Oil & Ampoule:** You can create special massage program with Oil and Ampoule using platinum.

2. Shampoo and hair-functional ampoule (Hair treatment)

- **Shampoo:** When you mix shampoo and wash your hair at home, hair loss can be prevented with anti-bacterial (seborrheic scalp bacteria sterilization) and anti-aging effects.
- **Functional ampoule for hair:** You can mix with functional hair ampoule at the hair salon to manage advanced hair care.

3. Toothpaste

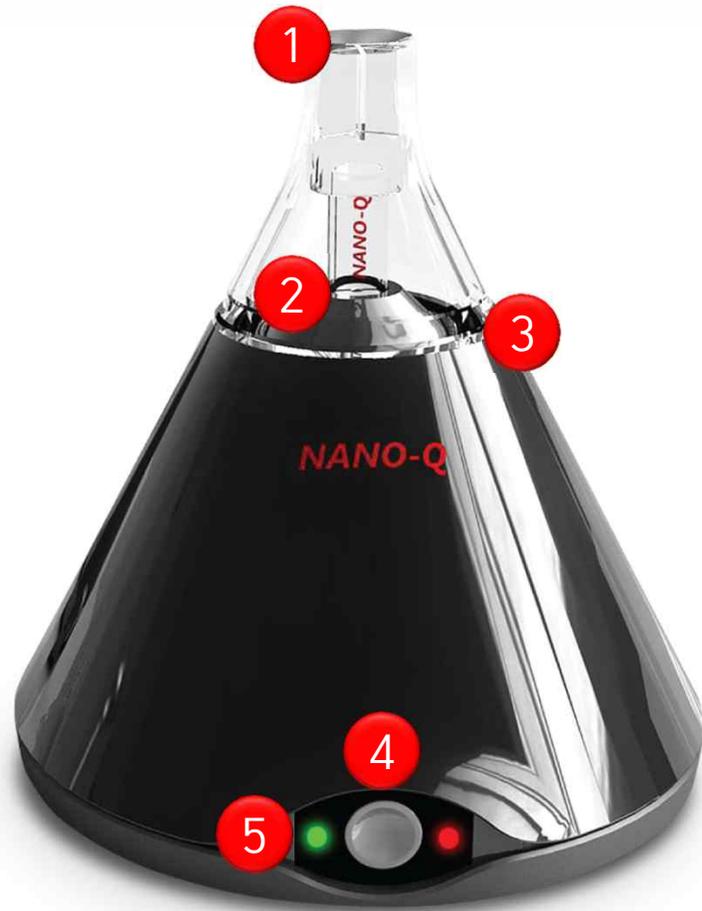
- Antibacterial characteristic makes teeth healthy, at the same time you can expect brightening effect on teeth.

4. Atopic product

- Atopic product can be applied with platinum for the atopic skin.



NANO-Q Composition



1. Power Hold Cap
2. Cartridge Holder
3. Power sensor
4. Operation button
5. Indicator
6. Cartridge
7. Platinum Wire Cap





Test data and Papers



DPPH Anti-oxidant test



2. 결과

1) Platinum nano solution의 DPPH 라디칼 소거 항산화활성

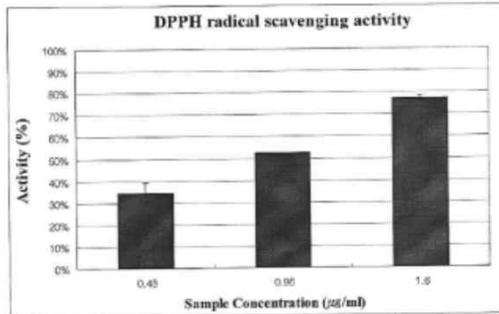


그림 1. Platinum nano solution의 DPPH 라디칼 소거 항산화활성

표 1. Platinum nano solution 및 표준항산화물질의 DPPH 라디칼 소거 항산화활성

시료	Platinum nano solution	BHA	Trolox
EC ₅₀ (µg/ml)	0.89	9.38	7.85

DPPH antioxidant test

Commissioned by government research institutes in the antioxidant test results.

The test indicates Platinum has about 9 to 10 times higher antioxidant activity than typical antioxidants BHA and Trolox.

It means, there is excellent free radical scavenging and antioxidant effect.

시험분석 결과보고서

제목: Platinum nano solution의 항산화 활성평가

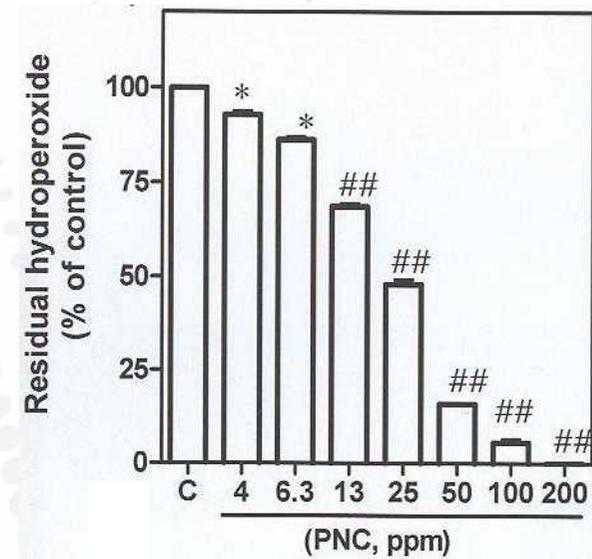
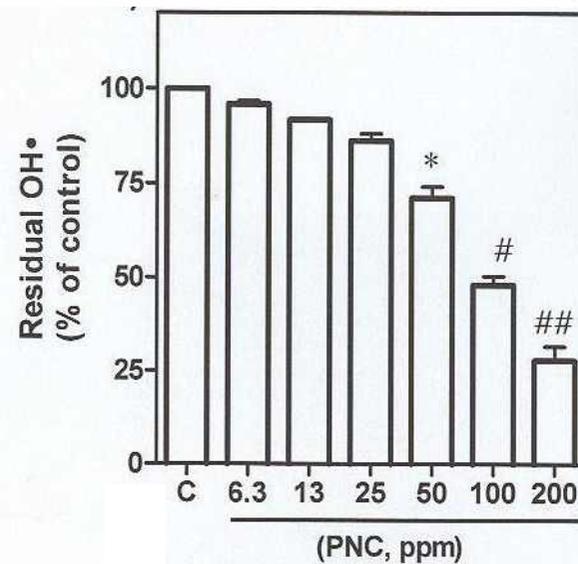
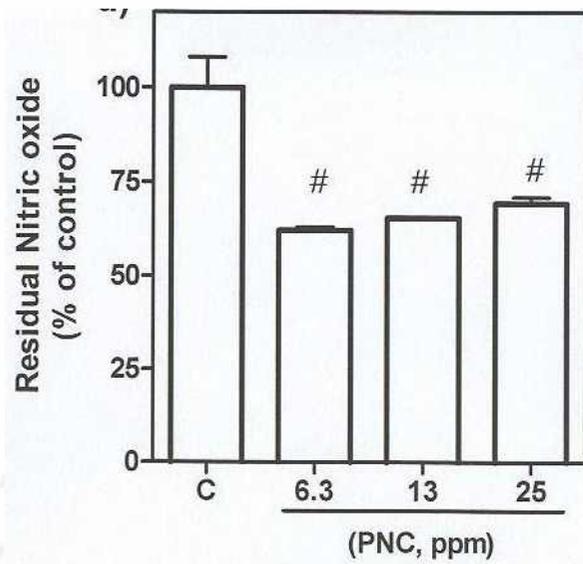
일자: 2008년 3월 6일
 시험의뢰자: 주) 순고나노어드벤처
 (경남 창원시 두 대동 196번지 창원진문대학 벤처창업관 13호)
 시험수행자: 김 공명 (책임연구원, 농림수산식품부)

한국생명공학연구원
 기능대사물질연구센터

본 결과를 영고, 소용 및 별첨 증거자료로 사용할 수 있습니다.



Anti-oxidant Animal test





FDA Safety Test (Skin Irritation)



Primary Skin Irritation test of Platinum Nano Colloid (195ppm)

Ethox International
Simplify Your World

Sponsor:
Jeong Yong Hoon
Solconanodvance Co., Ltd.
No. 13, Venture Building,
Changwon College, Changwon,
Gyeongnam, Republic of Korea (641-771)

STX Test No.: T08-0836
STX Study No.: GLP-2008-0052

Final Report

Primary Skin Irritation Test - ISO Method of
Platinum Nano Solution (1 mmol/L = 195 ppm)

Written & Approved By:
Brett Schneider
Brett Schneider, Toxicologist II
Study Director

11-2-09
Study Completion Date

S:\YX\REPORT\2008\T08-0836.doc
Ethox International, Inc. STX Life Sciences Division
7500 West Henrietta Road, Rush, New York 14543 | 585.533.1672 Fax: 585.533.1796 | Web: ethox.com

STX Test No.: T08-0836
STX Study No.: GLP-2008-0052

water are expected to have reasonable levels of contaminants, which should not have the potential to influence the outcome of the study.

Test Article Preparation:
0.5 ml of test material was placed on 2.5 cm x 2.5 cm gauze patches for application.

Methods:
Approximately four (4) to twenty-four (24) hours prior to testing, the fur on the dorsal (back) area of the trunk of each rabbit was shaved, taking care not to abrade the skin. The next day the exposed area was divided into four (4) sites, two (2) per side of the spine.

2.5 x 2.5 cm patches of gauze pad wet with 0.5 ml of test material and 2.5 x 2.5 cm patches of gauze pad wet with 0.5 ml of sterile water (corresponding blank) were applied to the skin of each rabbit as follows: cranial right = control, cranial left = test, caudal right = test, caudal left = control. Each patch was secured to each of the four (4) sites using an elastic bandage covered by adhesive tape or stockinet. Bandages and tape remained in place for four (4) hours. At the end of the contact time, patches were removed and any residual matter was removed by rinsing with lukewarm water.

The sites exposed to the test and control articles were examined for signs of dermal irritation at one (1), twenty-four (24), forty-eight (48), and seventy-two (72) hours post patch removal. The observations were rated on a numerical scale using the scoring system in Attachment I.

The mean skin reaction score for each animal was calculated by adding together the Primary Irritation scores for the test material for both erythema and edema at the twenty-four (24), forty-eight (48), and seventy-two (72) hour time points and dividing the sum by the total number of observations (six). The mean for the vehicle controls was calculated in the same manner and was then subtracted from the test material mean score to obtain the Primary Irritation Score (PIS).

The PIS for each animal was added and then divided by the number of animals (3) to obtain the Primary Irritation Index.

Results:
The test article, Platinum Nano Solution (1 mmol/L = 195 ppm), was tested for Primary Skin Irritation - ISO method, following FDA guidelines for GLP testing.

All observations and calculations are summarized in Table I.

There were no circumstances during the course of this study which affected the quality or integrity of the data obtained.

Conclusions:
The test article, Platinum Nano Solution (1 mmol/L = 195 ppm), elicited a negligible Primary Irritation Response with a Primary Irritation Index of 0.

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Table I

STX Test No.: T08-0836
STX Study No.: GLP-2008-0052

PRIMARY IRRITATION TEST RESULTS
Direct Contact

Animal No. (Weight (kg))	Test Article/ Test District	Shaved (Y)	Sample Applied (Y)	Sample Removed (Y)	1 hour Scores	24 hour Scores	48 hour Scores	72 hour Scores	Avg. Score*	PIS ²	Total PIS ³	PIS ⁴
080024 3.92	Test	X	X	X	err:0.0	err:0.0	err:0.0	err:0.0	0	0	0	0
	Control	X	X	X	err:0.0	err:0.0	err:0.0	err:0.0	0	0	0	0
080146 2.75	Test	X	X	X	err:0.0	err:0.0	err:0.0	err:0.0	0	0	0	0
	Control	X	X	X	err:0.0	err:0.0	err:0.0	err:0.0	0	0	0	0
080147 2.64	Test	X	X	X	err:0.0	err:0.0	err:0.0	err:0.0	0	0	0	0
	Control	X	X	X	err:0.0	err:0.0	err:0.0	err:0.0	0	0	0	0
Techn:	JUC/SJS	JUC/MR	JUC	JUC	JUC	JUC	MR/KC	KC/JV				
Date:	03/17/08	03/18/08	03/18/08	03/18/08	03/18/08	03/18/08	03/20/08	03/21/08				
Time:	5:00 pm	9:31 am	1:34 pm	2:44 pm	2:56 pm	2:10 pm	2:05 pm					

Note: Scores are recorded as left side, right side.
*Avg. Score = sum of erythema and edema 24, 48 & 72 hour scores ÷ 6
²PIS = Primary Irritation Score which is test score average minus control score average.
³Total PIS = sum of PIS for all test articles.
⁴PIS = Primary Irritation Index (PIS) = Total PIS ÷ 3 animals

*Upon removal of the test article, sites were rinsed with lukewarm water (Mfg./Lot/Exp.: B/Braun / J9H027 / 06-08)

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Ethox (FDA GLP guideline)



Cosmetic ingredients (ICID)



Securing the Industry's Future Since 1894



October 5, 2007

Mr. John Choi
Piscium International, Inc.
Granite Avenue 779
Langhorne, PA 19047

Pamelo G. Bailey
President & CEO

CTFA File No. 15621

Dear Mr. Choi:

In response to your Form TN submission(s) for the assignment of the International Nomenclature Cosmetic Ingredient (INCI) name(s) to your material(s), please be advised that the International Nomenclature Committee has completed its review of your request.

The name(s) assigned to your material(s) is listed on the attached printout. Please check the printout for accuracy, and advise if revisions are needed.

Your name assignment(s) will be published in future editions of CTFA's *International Cosmetic Ingredient Dictionary and Handbook* and the *International Buyer's Guide*.

Petitions requesting the revision of an INCI name assignment must be filed on Form TN and accompanied by a cover letter which explains the reasoning for the change. Relevant information on chemical composition or other criteria which support the revision should also be included with the petition.

In addition, be advised that nomenclature assignments are subject to change if deemed necessary for technical accuracy or other reasons as determined by the International Nomenclature Committee.

We trust this information is helpful.

Sincerely,


Tara E. Gottschalck
Manager - Cosmetic Ingredient Database

CTFA FILE NUMBER: 15621

TRADE NAMES WITH ASSIGNED INCI NAMES

TRADENAME: Nanomate-Pure Nano Platinum
Assigned INCI Name(s): MonolD: 21462 Colloidal Platinum

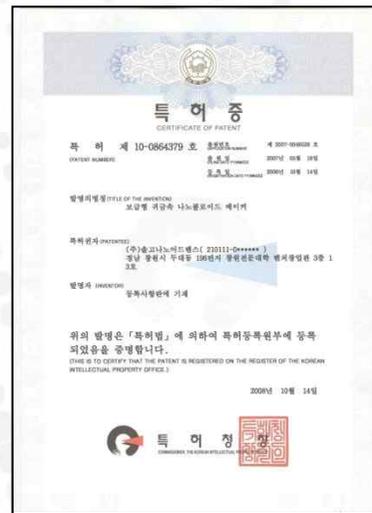
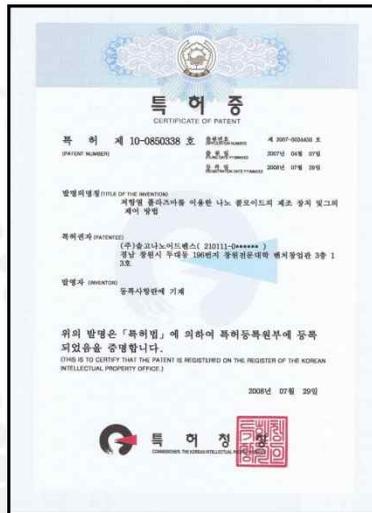
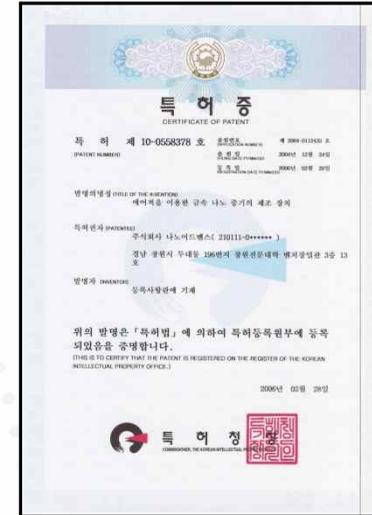
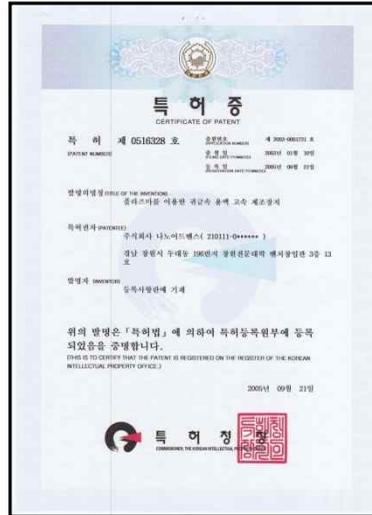
Registered in ICID of CTFA

Platinum nano-colloid produced by Nanobu:w is registered with the ICID(International Cosmetic Ingredient Dictionary) of CTFA as a cosmetic material and can be used in cosmetic products in Korea and foreign countries.

(CTFA file No.: 15621)

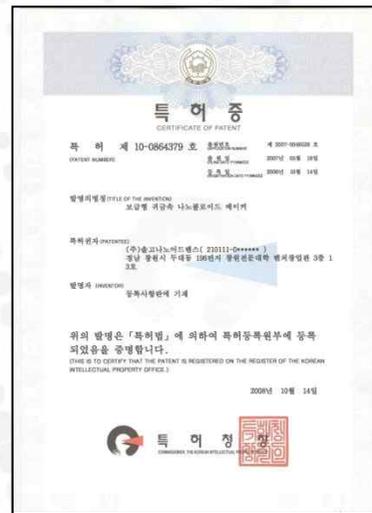
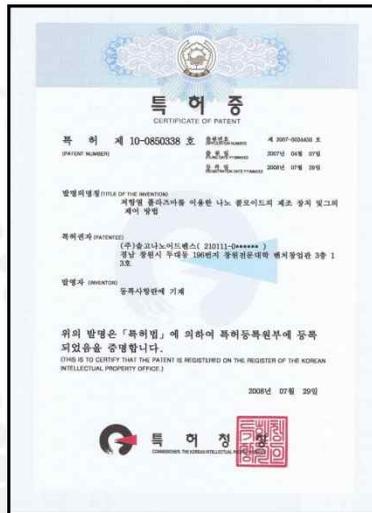
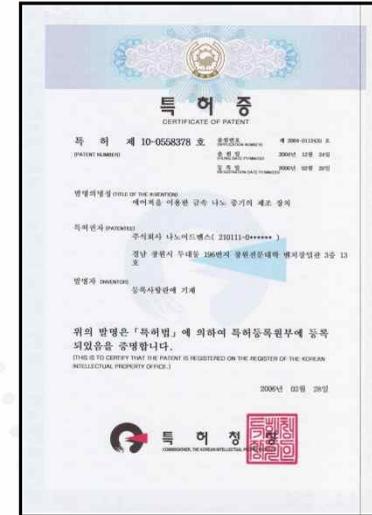


Certificated Data(Patent)





Certificated Data(Patent)





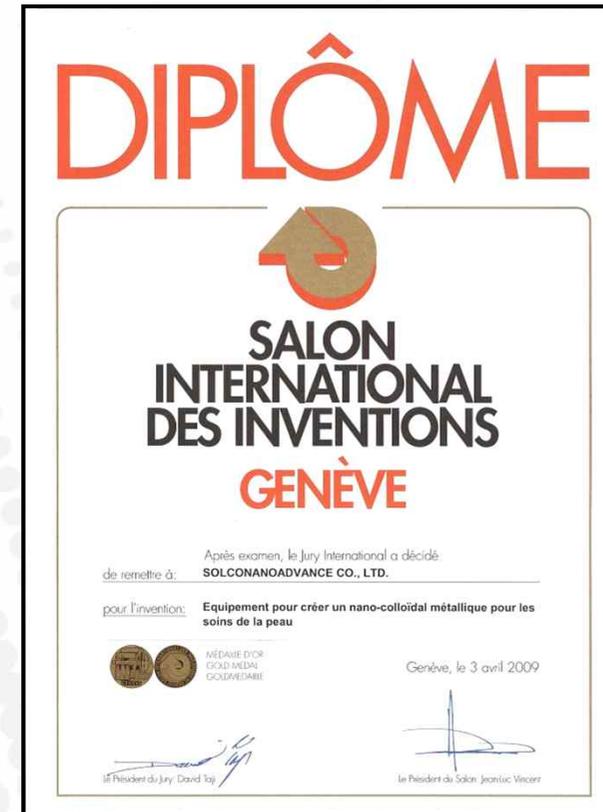
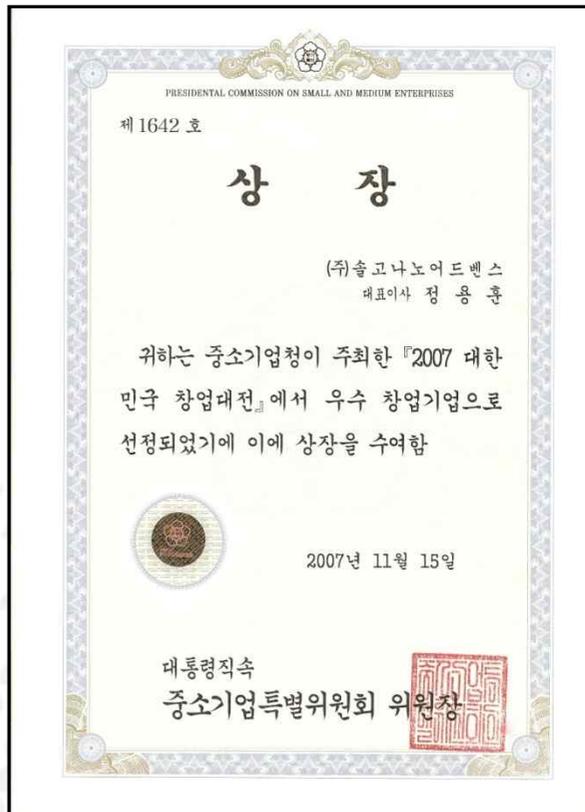
Certificated Data(Award)



Award in Venture company
contest of Korea
(2007. 11. 13)

Award in Nano Korea 2008
(2008. 08. 27)

Golden medal awarded from the
International Invention Contest in
Geneve (2009. 04. 03)





Certificated Data(Award)



Gold medal awarded from the International Invention Contest in Geneve (2009. 04. 03)

Certification (06. 12. 14)

Management of Quality System ISO 9001:2000(08. 03. 27)

