

# In-vivo/In-vitro Request Form

■ **Date**  
 ■ **Company** EX) AP cosmetic \_ 조이캠 고객사 \_ 대리점 형식으로 입력 부탁드립니다.  
 ■ **Department** EX) SUN care  
 ■ **Name** EX) Hong Kil Dong  
 ■ **Tel.**  
 ■ **E-mail**  
 ■ **Subject Supply** Supply ( )  
 ■ **Test type** In-vivo          SPF ( )    PA ( )

■ **Sample Information**

Sample Name	Type	Expected Value ( SPF / PA )	Active Ingredients			
			UV A Filters	%	UV B Filters	%
EX) SJF-1405	O/W	50 / +++	Parsol 1789 Hybrid AB	1.5 5	Parsol MCX Neo Heliopan E1000 Parsol 340 TXD40-AB	6.5 2 1.2 20

Address : H.O./Factory : 256 Haeran-ro Danwon-gu Ansan-si Gyungki-do, Korea (Zip:15612)  
 Tel : 82-(0)31-364-0725 Fax : 82-(0)31-494-6321 E-mail : marketing2@sunjinbs.com  
 Web site : <http://www.sunjinbs.com>



# SUNJIN BEAUTY SCIENCE

# **In-vivo test center @SUNJIN**

**SUNJIN BEAUTY SCIENCE**

**FEB. 2020**

**Ver 2.0**

**Choi Seung hee**

# Customer Visits to in vivo Test Center



02. 2019 Indonesian Customer



12. 2018

03. 2019 Korean Customer

**Free** UV In-vivo test service  
For SUNJIN customers



# Service Features



## **1. Free**

Free for SUNJIN customers



## **2. Fast**

Fast, it will take 2~3 weeks to receive in vivo test results



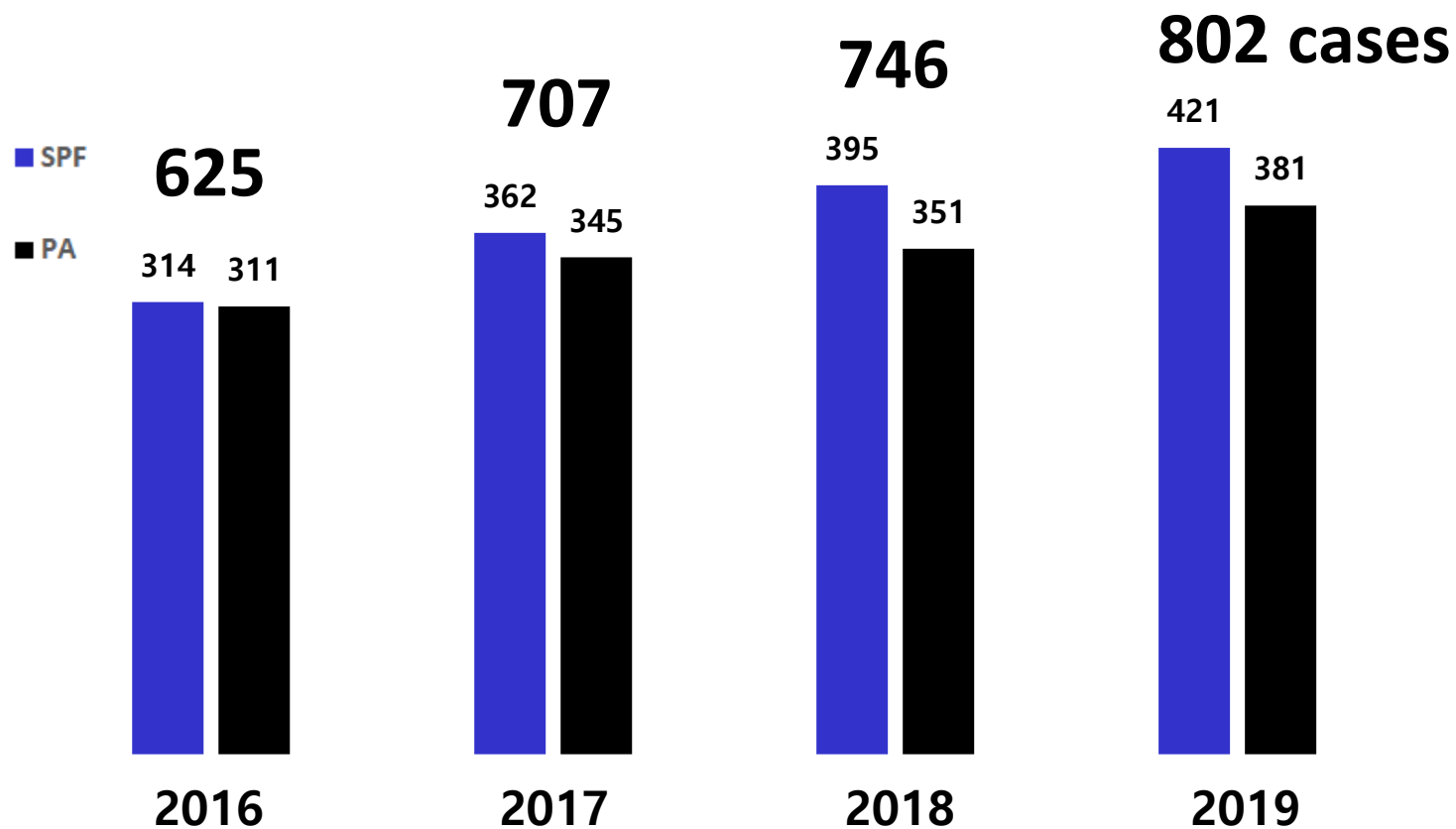
## **3. High reliability**

Since 2011

More than 600 cases annually

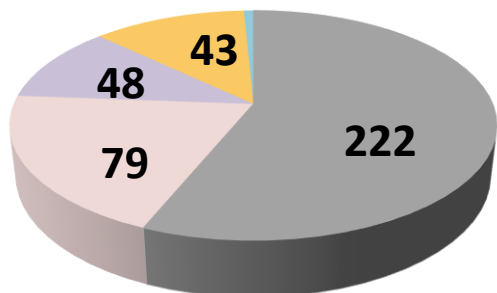
Calibration performed with other external in vivo agencies

# # of In-vivo tests

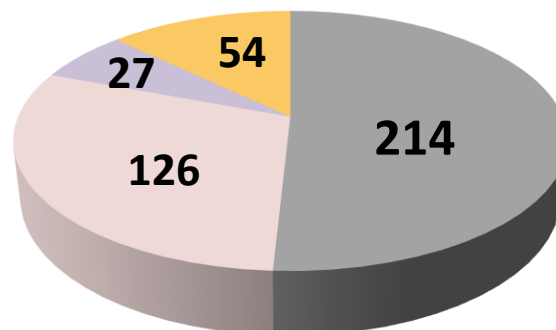


# # of In-vivo test in 2019

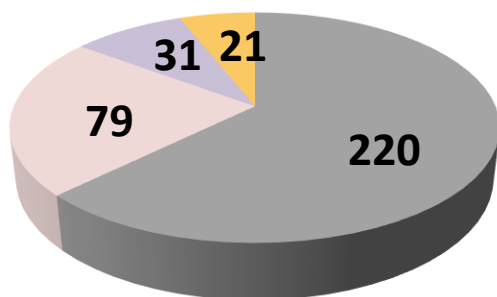
**SPF = 395**



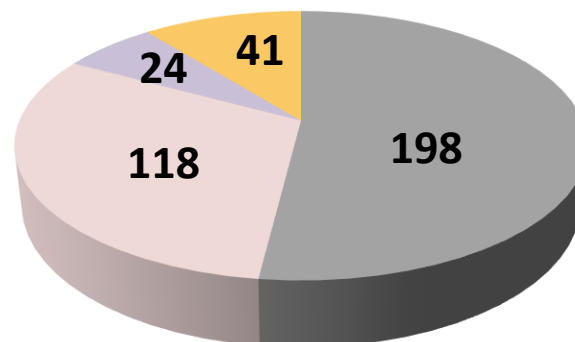
**SPF = 421**



**PA=351**



**PA = 381**



■ Domestic ■ China ■ EU ■ Asia

**395+351 = 746 in 2018**

**421+381 = 802 in 2019**

# Test Protocol @SUNJIN

## ISO-24444 for UVB, ISO-24442 for UVA

	In Vitro Broadspectrum	In Vitro UVA-PF & CW	In Vivo UVA-PF	In Vivo SPF	In Vivo SPF
	FDA -2011 MONOGRAPH	ISO 24443 2012	ISO 24442 2011	ISO 24444 2010	FDA - 2011 MONOGRAPH
AFRICA	NO	<b>YES</b> *according to SANS 1557:2013	<b>YES</b> *according to SANS 1557:2013	<b>YES</b> *according to SANS 1557:2013	NO
ASEAN	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>
ASIA	NO *accepted by China & Taiwan	<b>YES</b> *excepted China, Korea Japan	<b>YES</b> *excepted China & Korea (JCIA PPD method)	<b>YES</b> *excepted China	NO *accepted by China, Korea & Taiwan
EUROPEAN UNION	NO *rarely	<b>YES</b>	<b>YES</b>	<b>YES</b>	NO *rarely
MERCOSUR	NO	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>
NORTH AMERICA	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>
OCEANIA	NO	<b>YES</b> *according to AS/NZS 2604	<b>YES</b> *excepted Australia	<b>YES</b> *according to AS/NZS 2604	<b>YES</b> *excepted Australia
USA	<b>YES</b>	NO	NO	NO	<b>YES</b>



# Request Form

## In-vivo/In-vitro Request Form

■ Date 2019.04.20  
 ■ Company Base Clean  
 ■ Department R&D  
 ■ Name Jiang Yulin  
 ■ Tel. 13265119587  
 ■ E-mail [760936325@cs.com](mailto:760936325@cs.com)  
 ■ Subject Supply Supply ( )  
 ■ Test type In-vivo SPF (  ) PA (  )

### ■ Sample Information

Sample Name	Type	Expected Value ( SPF / PA )	Active Ingredients			
			UV A Filters	%	UV B Filters	%
KB181227P23Sunscreen Spray	W/O	30 / +++	SUNZnO-NAS	8	TXD60-D5	13
JP190420A	W/O	50 / +++	SUNZnO-NAS	13.2	TXD60-D5	13
JP190420B	W/O	50 / +++	SUNZnO-NAS	18.75	TXD60-D5	12
JP190420C	W/O	50 / +++	SUNZnO-NAS	15.6	TXD60-D5 HMS	9.2 2.9

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## SUNJIN BEAUTY SCIENCE

# Test Report

## EVALUATION OF SPF, PA(ISO24442,601-300W Multiport UV Solar Simulator)

Client: Base Clean  
 Formula: JP190420A  
 Test No: SJIV-190515-2

Expected SPF: 50 Expected standard SPF : 13.7~17.7

No.	Date	Panel	Sex	Age	ITA*	Skin type	UW/cm <sup>2</sup> Amps	MEDu (sec)	UW/cm <sup>2</sup> Amps	MEDp Std (sec)	UW/cm <sup>2</sup> Amps	MEDp Product (sec)	SPF Std	SPF Product	Tech Initials
1	2019. 05. 15	SJY	M	25	43.7	II	528.7	60	857	930.53	800	2142.6	15.50	54.00	SA
MEAN SPF															
STANDARD DEV (s)															
STD. ERROR															
S.E. % OF MEAN															
95% CONFIDENCE INTERVAL															
N OF CASES													1	1	
MED : Minimal Erythral Dose															

Expected UVA-PF: 8 Expected standard UVA-PF : 3.8 ~ 5.0

No.	Date	Panel	Sex	Age	ITA*	Skin type	UW/cm <sup>2</sup> Amps	MPPDDu (sec)	UW/cm <sup>2</sup> Amps	MPPDDp Std (sec)	UW/cm <sup>2</sup> Amps	MPPDDp Product (sec)	UVA-PFi S1 Std	UVA-PFi Product	Tech Initials
1	2019. 05. 15	SJY	M	25	43.7	II	63.2	240	63.2	1,072.80	83.5	1669.1	4.47	9.19 ↑	SA
MEAN PA															
STANDARD DEV (s)															
STD. ERROR															
S.E. % OF MEAN															
95% CONFIDENCE INTERVAL															
N OF CASES													1	1	
MPPDD: Minimal Persistent Pigment Darkening Dose															

Technicians: Choi Seung Hee

Evaluation Period: This study was conducted from  
 through

