

# **Agile Therapeutics Inc**

## **CORTELLIS COMPANY DETAILED PIPELINE REPORT**

A comprehensive coverage of the the company's drug pipeline portfolio including detailed product records.

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## ABOUT CORTELLIS COMPANY DETAILED PIPELINE REPORT

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## **GLOSSARY**

### **Number of Drugs in Active Development**

Number of drugs associated with the company or subsidiary that are currently in active development, i.e. the development status for the drug(s) is one of the following: Discovery, Clinical, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

### **Number of Inactive Drugs**

Number of drugs associated with the company or subsidiary that are currently classified as inactive, i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.

### **Number of Patents as Owner**

Number of patents associated with the company where the company is listed as owner; i.e. the relationship type (or way the patent refers to the company) is: Patent Assignee/Owner, Patent owner (not assignee), Licensee for development and marketing, Licensee – marketing only (Distributor), Patent assignee of family member, Inferred assignee.

### **Number of Patents as Third Party**

Number of patents associated with the company where the company is listed as third party; i.e. the relationship type (or way the patent refers to the company) is: Patent assignee (not owner), Ex-Licensee for development and marketing, Ex-Licensee marketing only (Distributor), Customer of technology, Ex-Customer of technology, Patent opponent or infringer, Affiliate organization of inventor, Owner of underlying technology.

### Patents summary table

This table represents a summary of the core patent coverage for this company covering Therapeutic EP, US and WO patents since 1990 only.

### **Number of Deals**

A count of deals where the company or one of its subsidiaries is the primary company.

### **Key Indications**

Displays top ten key indications for the company and its subsidiaries based on frequency (indications occurring with high and identical frequency are always included, and this may result in more than ten Key Indications being listed). Includes both indications associated with patents where the company is patent owner and indications associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

### **Key Target-based Actions**

Displays top ten key target-based actions for the company and its subsidiaries based on frequency (actions occurring with high and identical frequency are always included, and this may result in more than ten Key Target-based Actions being listed). Includes both target-based actions associated with patents where the company patent owner and target-based actions associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended. A target-based action is one that is associated with a target.

### **Key Technologies**

Displays top ten key technologies for the company and its subsidiaries based on frequency (technologies occurring with high and identical frequency are always included, and this may result in more than ten Key Technologies being listed). Includes both key technologies associated with patents where the company relationship is patent owner and key technologies associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

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## **Agile Therapeutics Inc**

## **COMPANY OVERVIEW**

Company Name	Agile Therapeutics Inc
Parent Company Name	Agile Therapeutics Inc
Website	http://www.agiletherapeutics.com/
Country	US
Number of Drugs in Active Development	3
Number of Inactive Drugs	0
Number of Patents as Owner	8
Number of Patents as Third Party	2
Number of Deals	2
Key Indications	Female contraception, Depression, Parkinsons disease, Alzheimers disease, Central nervous system disease, Migraine, Nausea, Pain
Key Target-based Actions	Progesterone receptor agonist,Estrogen receptor agonist,5-HT 3 receptor antagonist,MAO B inhibitor
Key Technologies	Patch formulation, Transdermal formulation, Small molecule therapeutic, Absorption enhancer transdermal, Drug combination, Formulation preservation, Absorption enhancer, Controlled release formulation, Matrix

## **COMPANY PROFILE**

### **SUMMARY**

Agile Therapeutics, founded in 1997, is a late-stage, privately-held pharmaceutical company focusing on women's health products.

### **FINANCIAL**

In February 2015, a first tranche of \$16.5 million was funded upon execution of the loan agreement and \$15.5 million would be used to repay Agile's existing term loan facility. Under the terms of the loan agreement, Agile was not obligated to,draw an additional tranche of up to \$8.5 million prior to July 1, 2016, subject to the achievement of certain clinical milestones, which may be extended to December 31, 2016. At that time, Agile issued Hercules a warrant to purchase 180,274 shares of Agile common stock at an exercise price of \$5.89 each.

In January 2015, the company entered into a definitive stock purchase agreement with a group of institutional accredited investors for the private placement of 3.4 million of common stock shares at \$5.85 per share and the gross proceeds were expected to be \$20 million. At that time, the private placement was expected to close on or about January 23, 2015.

In June 2014, the company's stock was added to the Russell Microcap Index.

In March 2014, Agile filed form S-1 with the US SEC for a proposed IPO of common stock. In May 2014, the company priced the offering of 9,166,667 shares at \$6 per share. The underwriters were granted a 30-day option to buy up to an aggregate of 1,375,000 additional shares of common stock, to cover any over-allotments. The offering was expected to close on May 29, 2014. At that time, the shares were expected to initiate trading on the NASDAQ Global Market, on May 23, 2014, under the symbol "AGRX".

In January 2013, the company closed a term loan facility for up to \$15 million with Oxford Finance.

In July 2012, the company raised \$40 million from a series C financing.

In June 2010, Agile raised \$45 million from a series B preferred stock financing.

In December 2007, Agile raised \$5.6 million from a series E financing round.

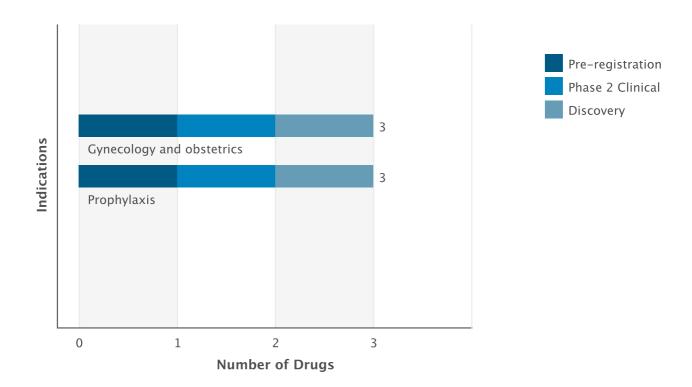


## PRODUCT PORTFOLIO SUMMARY

## **DRUGS**

## Drugs by Indication

Active Drugs by Indication Chart



## Drugs by Indication Table

Indication	Active	Inactive	Total
Prophylaxis	3	0	3
Gynecology and obstetrics	3	0	3

## **Drugs by Highest Status**

Active Drugs by Highest Status Chart



## Drugs by Highest Status Table

Development Status	Number of Drugs
Pre-registration	1
Phase 2 Clinical	1
Discovery	1

## **DEALS**

Deal Type	Prin	cipal	Par	tner	Total
	Active	Inactive	Active	Inactive	
Drug - Manufacturing/Supply	0	0	1	0	1
Drug - Development Services	0	0	1	0	1

## **CLINICAL TRIALS**

## Trials by Condition Studied

Condition Studied	Ongoing	All
Gynecology and obstetrics	0	4
Prophylaxis	0	4



## Trials by Phase

Phase	Ongoing	All
Phase 3	1	4
Phase 2	0	3
Phase 1	0	4

## **Phase Definitions**

### Phase 3 Clinical

Includes Phase 3, Phase 3b, Phase 3a, Phase 2/3 (where enrolment count is 300 or over)

### Phase 2 Clinical

Includes Phase 2, Phase 2a, Phase 2b, Phase 1/2 (where enrolment count is 100 or over), Phase 2/3 (where enrolment count is under 300 or not specified)

### Phase 1 Clinical

Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

### **PATENTS** \*

Indication	As Owner	As Third Party	Total
Gastrointestinal disease	0	1	1
Degeneration	0	1	1
Psychiatric disorder	0	2	2
Neurological disease	0	2	2
Prophylaxis	11	0	11
Gynecology and obstetrics	11	0	11

<sup>\*</sup> This table represents a summary of the core patent coverage for this company covering Therapeutic EP, US and WO patents since 1990 only.



## PRODUCT PORTFOLIO DRUG PIPELINE DETAIL

PLEASE NOTE: Highest status refers to highest development of that drug for one of the active companies

# ethinylestradiol + levonorgestrel (female contraception, patch, Skinfusion), Agile

ethinylestradiol + levonorgestrel (female contraception, patch, Skinfusion), Agile SNAPSHOT

Drug Name	ethinylestradiol + levonorgestrel (female contraception, patch, Skinfusion), Agile
Key Synonyms	Twirla
Originator Company	Agile Therapeutics Inc
Active Companies	Agile Therapeutics Inc
Inactive Companies	
Highest Status	Pre-registration
Active Indications	Female contraception
Target-based Actions	Estrogen receptor agonist; Progesterone receptor agonist
Other Actions	Female contraceptive
Technologies	Patch formulation; Absorption enhancer transdermal; Small molecule therapeutic; Drug combination; Transdermal formulation
Last Change Date	25-Feb-2015

ethinylestradiol + levonorgestrel (female contraception, patch, Skinfusion), Agile DEVELOPMENT PROFILE

### **SUMMARY**

Agile Therapeutics is developing AG-200-15 (Twirla), a low-dose weekly patch containing ethinylestradiol (EE) and levonorgestrel (LNG), based on company's Skinfusion technology, for the potential use as a female ,. In April 2012, an NDA was submitted to the FDA; in July 2012, the NDA was accepted by the FDA. In September 2014, approval was expected later in 2016.

ethinylestradiol + levonorgestrel (female contraception, patch, Skinfusion), Agile DEVELOPMENT STATUS

### **CURRENT DEVELOPMENT STATUS**

Company	Indication	Country	<b>Development Status</b>	Date
Agile Therapeutics Inc	Female contraception	US	Pre-registration	30-Apr-2012

ethinylestradiol + levonorgestrel (female contraception, patch, Skinfusion), Agile CHEMICAL STRUCTURES

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CAS Registry Number:	Confidence Level:
	1



Name	Туре
Miranova	Trade Name
Levlite	Trade Name
DR-103	Research Code
AG-200-15	Research Code
ethinylestradiol + levonorgestrel	

CAS Registry Number:	Confidence Level:
57-63-6	1

Name	Туре
ethinylestradiol	BANN; INN
ethynylestradiol	USAN
ethinyl estradiol	USAN

CAS Registry Number: Confidence Level:					
797-63-7	1				
	H WILLIAM OH				
Name	Туре				
levonorgestrel	BANN; INN				
NorLevo	Trade Name				
Skyla	Trade Name				

## ethinylestradiol + levonorgestrel (female contraception, patch, Skinfusion), Agile DRUG NAMES

Names	Туре
AG-200-15	Research Code
Twirla	Trade Name
ethinylestradiol + levonorgestrel (female contraception, patch, Skinfusion), Agile	
ethinylestradiol + levonorgestrel	

## ethinylestradiol + levonorgestrel (female contraception, patch, Skinfusion), Agile CLINICAL TRIALS

## Trials by Phase and Condition Studied

	se 4 nical		se 3 nical		se 2 nical		se 1 nical	Pha Unspe		To	tal
On- going	All	On- going	All	On- going	All	On- going	All	On- going	All	On- going	All
Female contraception											
0	0	0	1	0	1	0	1	0	0	0	3

### Total Trials by Phase and Status

Phase 4 Clinical			se 3 nical		Phase 2 Clinical		Phase 1 Clinical		Phase Unspecified		tal
On- going	All	On- going	All	On- going	All	On- going	All	On- going	All	On- going	All
Total by	Total by Phase and Status										
0	0	1	4	0	3	0	3	0	0	1	10

### **Phase Definitions**

### Phase 3 Clinical

Includes Phase 3, Phase 3b, Phase 3a, Phase 2/3 (where enrolment count is 300 or over)

#### Phase 2 Clinical

Includes Phase 2, Phase 2a, Phase 2b, Phase 1/2 (where enrolment count is 100 or over), Phase 2/3 (where enrolment count is under 300 or not specified)

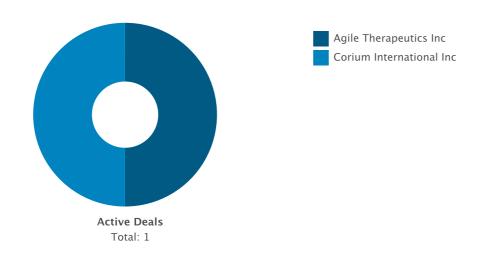
### Phase 1 Clinical

Includes Phase 1, Phase 1, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

# ethinylestradiol + levonorgestrel (female contraception, patch, Skinfusion), Agile DEALS AND PATENTS

### **DEALS**

## **Deals by Parent Company Chart**

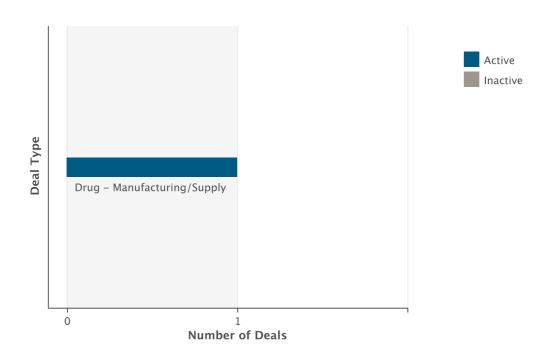




## **Deals by Parent Company Table**

Company Name	Principal Active Inactive		Partner Active Inactive		Total
Agile Therapeutics Inc	0	0	1	0	1
Corium International Inc	1	0	0	0	1

## **Deals by Type Chart**



## **Deals by Type Table**

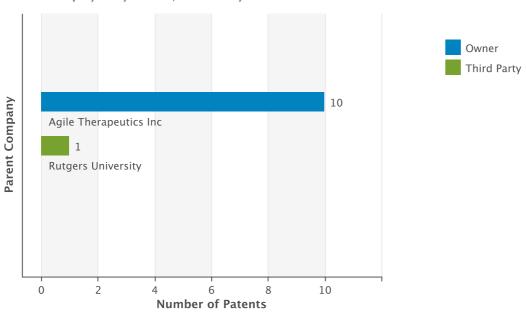
Deal Type	Active	Inactive	Total
Drug - Manufacturing/Supply	1	0	1



## **PATENTS**

## **Patents by Parent Company Chart**

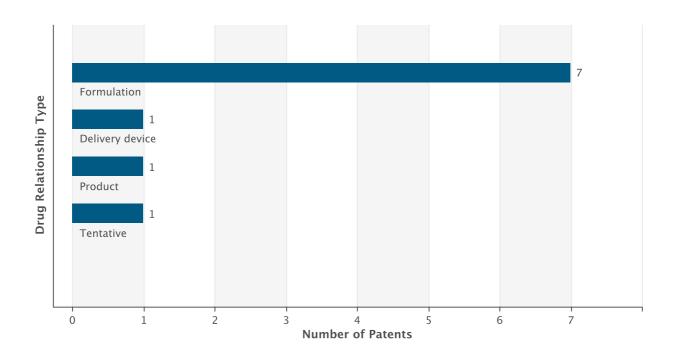
Chart displayed by Owner/Third Party



## **Patents by Parent Company Table**

Company Name	As Owner	As Third Party	Total
Agile Therapeutics Inc	10	0	10
Rutgers University	0	1	1

## **Patents by Drug Relationship Type Chart**



## **Patents by Drug Relationship Type Table**

Drug Relationship	Total
Formulation	7
Tentative	1
Product	1
Delivery device	1



## levonorgestrel (Skinfusion patch, female contraception), Agile

## levonorgestrel (Skinfusion patch, female contraception), Agile SNAPSHOT

Drug Name	levonorgestrel (Skinfusion patch, female contraception), Agile
Key Synonyms	levonorgestrel
Originator Company	Agile Therapeutics Inc
Active Companies	Agile Therapeutics Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Female contraception
Target-based Actions	Progesterone receptor agonist
Other Actions	Female contraceptive
Technologies	Patch formulation;Small molecule therapeutic;Transdermal formulation
Last Change Date	09-Apr-2014

levonorgestrel (Skinfusion patch, female contraception), Agile DEVELOPMENT PROFILE

### **SUMMARY**

Agile Therapeutics is developing AG-890 (AG-900, AG-1000), a low-dose weekly patch containing levonorgestrel, based on company's Skinfusion technology, for the potential use as a contraceptive in breast-feeding mothers and women with contraindications to estrogen,. By January 2011, a phase I/II trial had been initiated of two different doses (AG-1000-6.5 and AG-1000-12.5). In July 2012, the drug was listed as being in phase II development; in March 2014, this was still the case and at that time, an NDA filing was expected in 2015.

levonorgestrel (Skinfusion patch, female contraception), Agile DEVELOPMENT STATUS

### **CURRENT DEVELOPMENT STATUS**

Company	Indication	Country	<b>Development Status</b>	Date
Agile Therapeutics Inc	Female contraception	US	Phase 2 Clinical	09-Jan-2011

levonorgestrel (Skinfusion patch, female contraception), Agile CHEMICAL STRUCTURES

CAS Registry Number: Confidence Level:			
797-63-7	1		
O H H H H H H H H H H H H H H H H H H H	H H H H H H H H H H H H H H H H H H H		
Name	Туре		
levonorgestrel	BANN; INN		
NorLevo	Trade Name		
Skyla	Trade Name		

## levonorgestrel (Skinfusion patch, female contraception), Agile DRUG NAMES

Names	Туре
progestin-only patch (transdermal contraceptive delivery system), Agile	
AG-890-6.5	Research Code
AG-890	Research Code
AG-1000-12.5	Research Code
AG-1000	Research Code
AG-890-12.5	Research Code
levonorgestrel (Skinfusion patch, female contraception), Agile	
levonorgestrel	BANN, INN
AG-1000-6.5	Research Code
AG-900	Research Code

## levonorgestrel (Skinfusion patch, female contraception), Agile CLINICAL TRIALS

Trials by Phase and Condition Studied

	se 4 nical		ise 3 nical		se 2 nical		se 1 nical		ase ecified	То	tal
On- going	All	On- going	All	On- going	All	On- going	All	On- going	All	On- going	All
Female contraception											
0	0	0	0	0	0	0	1	0	0	0	1

## Total Trials by Phase and Status

	se 4 nical		ise 3 nical		se 2 nical		se 1 nical		ase ecified	То	tal
On- going	All	On- going	All	On- going	All	On- going	All	On- going	All	On- going	All
Total by Phase and Status											
0	0	0	0	0	1	0	1	0	0	0	2

### **Phase Definitions**

### Phase 3 Clinical

Includes Phase 3, Phase 3b, Phase 3a, Phase 2/3 (where enrolment count is 300 or over)

#### Phase 2 Clinical

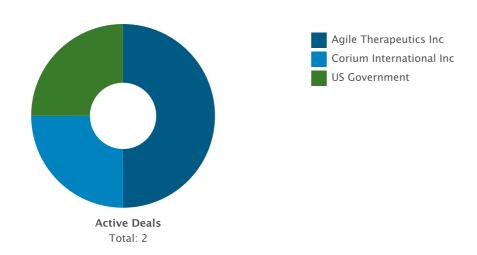
Includes Phase 2, Phase 2a, Phase 2b, Phase 1/2 (where enrolment count is 100 or over), Phase 2/3 (where enrolment count is under 300 or not specified)

### Phase 1 Clinical

Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

DEALS

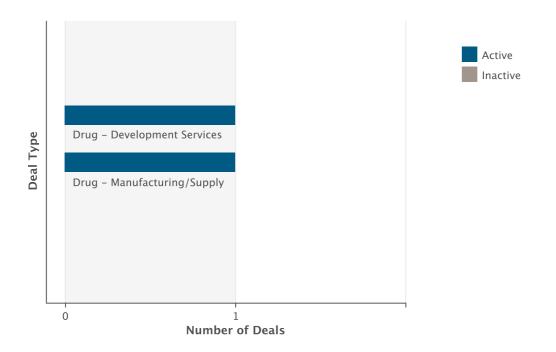
Deals by Parent Company Chart



## **Deals by Parent Company Table**

Company Name	<b>Principal</b> Active Inactive		Partner Active Inactive		Total
Agile Therapeutics Inc	0	0	2	0	2
US Government	1	0	0	0	1
Corium International Inc	1	0	0	0	1

## **Deals by Type Chart**



## **Deals by Type Table**

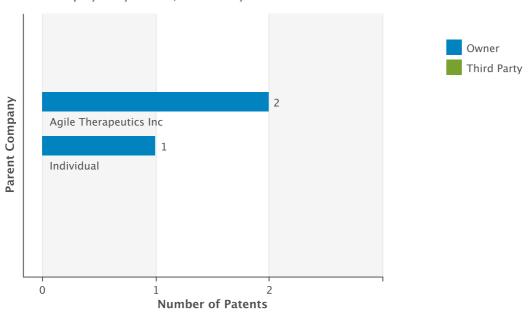
Deal Type	Active	Inactive	Total
Drug - Manufacturing/Supply	1	0	1
Drug - Development Services	1	0	1



### **PATENTS**

## **Patents by Parent Company Chart**

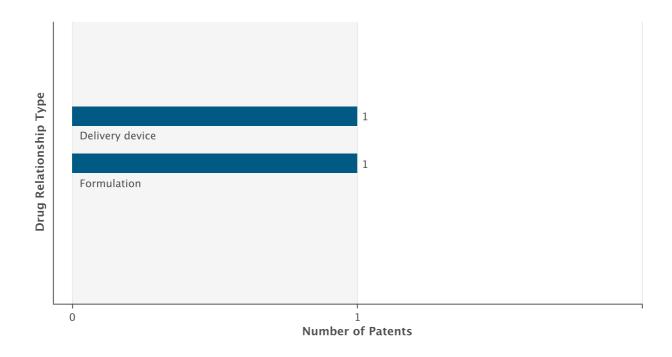
Chart displayed by Owner/Third Party



## **Patents by Parent Company Table**

Company Name	As Owner	As Third Party	Total
Agile Therapeutics Inc	2	0	2
Individual	1	0	1

## **Patents by Drug Relationship Type Chart**



## **Patents by Drug Relationship Type Table**

Drug Relationship	Total
Formulation	1
Delivery device	1

## undisclosed patch programs (female contraception), Agile Therapeutics

## undisclosed patch programs (female contraception), Agile Therapeutics SNAPSHOT

Drug Name	undisclosed patch programs (female contraception), Agile Therapeutics
Key Synonyms	
Originator Company	Agile Therapeutics Inc
Active Companies	Agile Therapeutics Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Female contraception
Target-based Actions	
Other Actions	Contraceptive;Unspecified drug target
Technologies	Patch formulation; Absorption enhancer transdermal; Small molecule therapeutic; Transdermal formulation
Last Change Date	17-Mar-2014

## undisclosed patch programs (female contraception), Agile Therapeutics DEVELOPMENT PROFILE

### **SUMMARY**

Agile is investigating a program of contraceptive patches, based on company's Skinfusion technology, for the potential use as a female contraceptive. In July 2012, the program was listed as being in preclinical devlopment; at that time the leads from the program were ready to move into clinical development; in March 2014, this was still the case.

## undisclosed patch programs (female contraception), Agile Therapeutics DEVELOPMENT STATUS

### **CURRENT DEVELOPMENT STATUS**

Company	Indication	Country	<b>Development Status</b>	Date
Agile Therapeutics Inc	Female contraception	US	Discovery	27-Jul-2012

## undisclosed patch programs (female contraception), Agile Therapeutics DRUG NAMES

Names	Туре
undisclosed patch programs (female contraception), Agile Therapeutics	



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