

# 가-

2001. 10.15.

Web site

5

## 1.

가 Symyx CTO(Chief  
Technology Officer)가 Plenary Lecture , 10  
Plenary Lecture

가 가  
가 , 가  
가

Preliminary Study 가 ,  
Scale Test ,  
Pilot Plant Test Pilot Test  
가 , Basic Design High  
Throughput Screening, , Combinatorial Catalysis Pilot Test

## 2.

가

**Combinatorial Catalysis:** 가 가  
5 가  
5 가

Test  
**High Throughput Screening:**  
Screening  
가:

가 ,

**Primary Screening:**

Candidate 가 Initial 가 . 250  
microgram 가 .

**Secondary Screening:** Primary Screening

Recipe , 2 Test.

가

10 mg~1 g .

**3. 가**

Max-Planck 가 가

**1) Reproducible Synthesis:**

**2) Good Reactor:** 가

**3) Reliable Asset:**

**4) Informatics:** 가

( )

가

3

Informatics 가 .

**5) Robotics:**

Screening 가 , Primary

가 .

Robotics 가 . ,

Primary Screening Test

Scanning 가 ,

Product Robotics 가 .

#### 4. 가

가 가

.

Alternative

가

, Feed

Pilot

가

Feed

stream

( , )

가

가

가

가

Pilot Test

Pilot

Alternative

가

가

가

가

가

가

#### 5. Primary Screening

Primary Screening

/

Symyx , UOP ,

Max Planck

. Primary

Screening

50

Screening

가

Robotics

1

Monolith cell

250microgram

( On-chip Thick Film Library ). Symyx ,

UOP

Max Planck

가

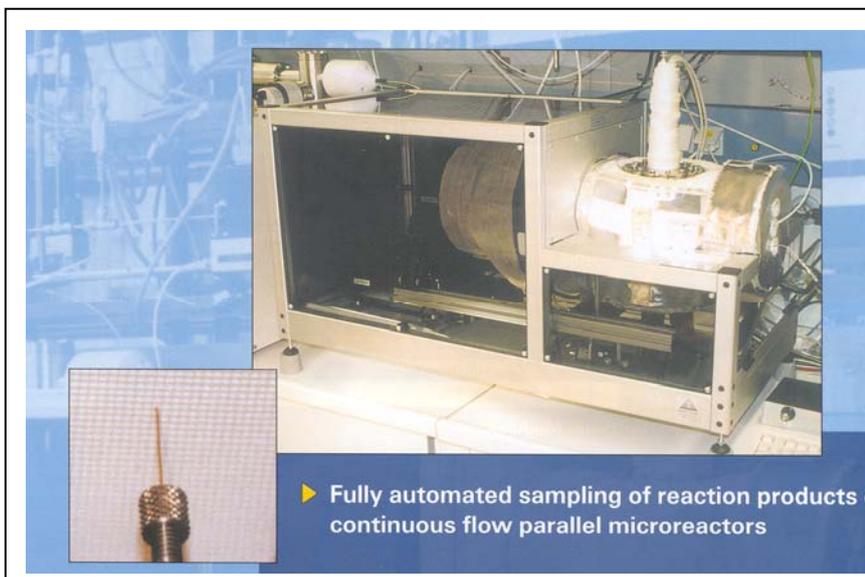
Monolith

AMTEC

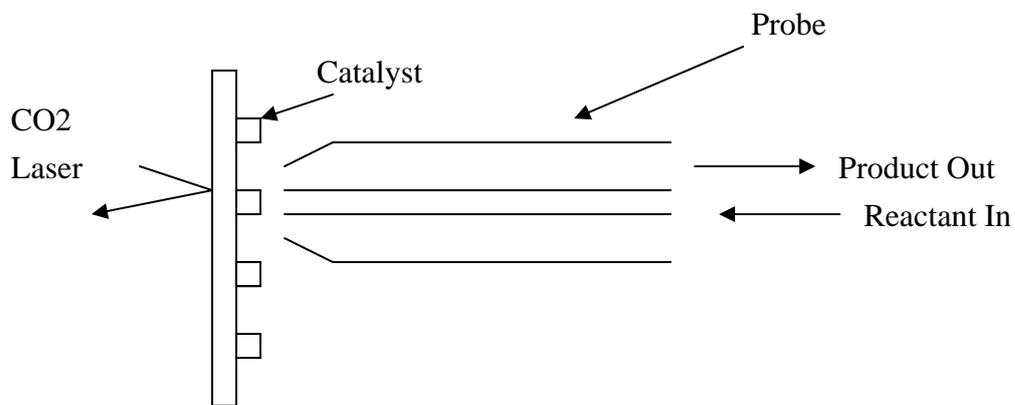
가 ,

Monolith

1 AMTEC Gas Insulation Part 1 가  
 Monolith Cell Monolith 가  
 Sampling Tool  
 Sampling Tool Capillary Line 가  
 Symyx Monolith  
 / 2 CO2 Laser Probe 가  
 Probe 가  
 , In-situ XRD 가  
 Primary Screening Mass Spec. Vapor 가



**1. AMTEC Sample Robot System**



**2. SYMYX Primary Screening System**

## 6. Secondary Screening

Secondary Screening 가

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. UOP Max Planck Secondary Screening System

Symyx

Secondary Screening 10mg~1g

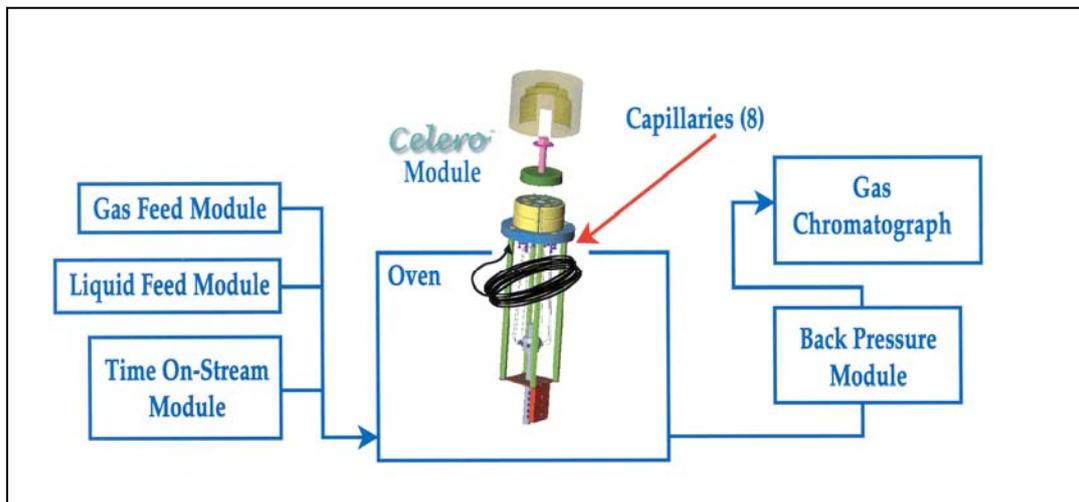
8~48 Test . Symyx Zeton

Licensing-out Zeton , , 가 가 .

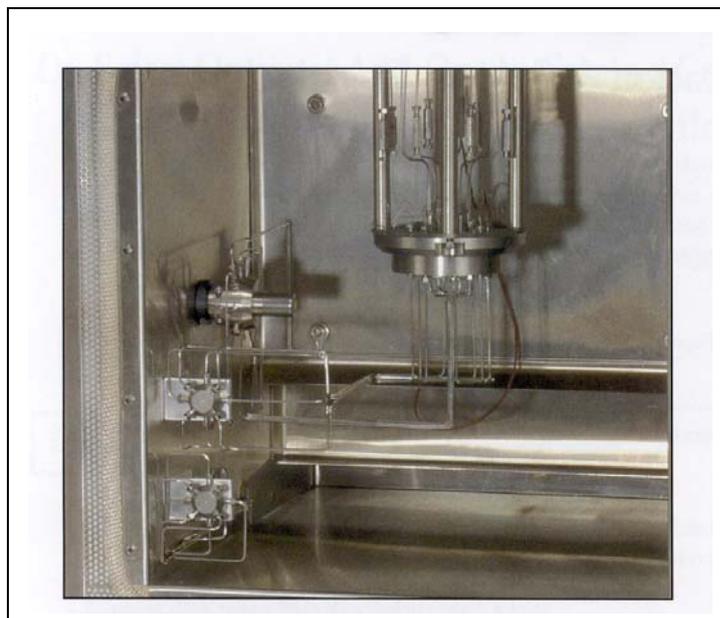
3 Symyx 가 Secondary Screening System

Module Gas Liquid Oven, GC . , Software PC 가 .

8 Capillary . Gas Feed Module Liquid Feed Module MFC Pump 가 , 8 , Liquid Oven Vaporize , Vapor/Gas Capillary . , Capillary , Feed 가 8 , Feed 가 가 Vapor MFC . Pump 4 Oven Part . Valve GC . Oven Valve . Program . Oven 200C 가 .

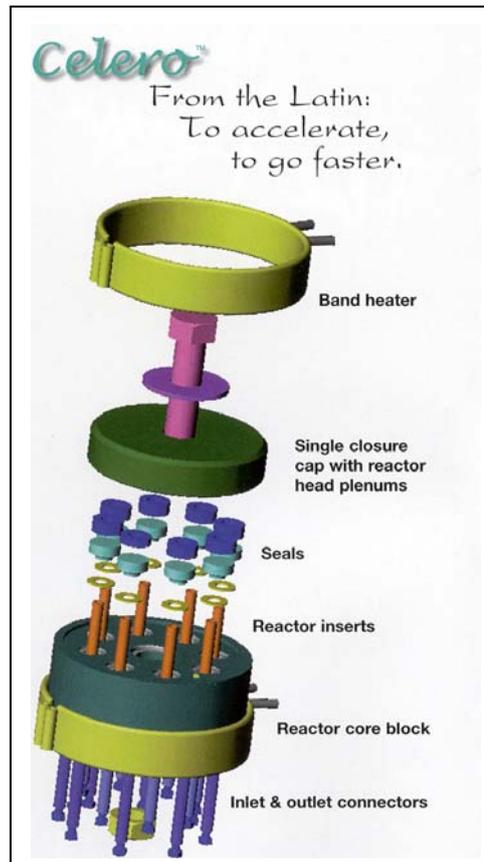


### 3. Celero



### 4. Celero Oven Part

5 , 8  
 Reactor Insert (Single  
 Closure... ) . 가 Band Heater  
 , 600C 가 .  
 가  
 8 16 set  
 가 . Symyx 16 3  
 Set( 48 ) GC 가 .  
 GC GC  
 2~3 micro GC .



### 5. Celero

\*\*

가 .