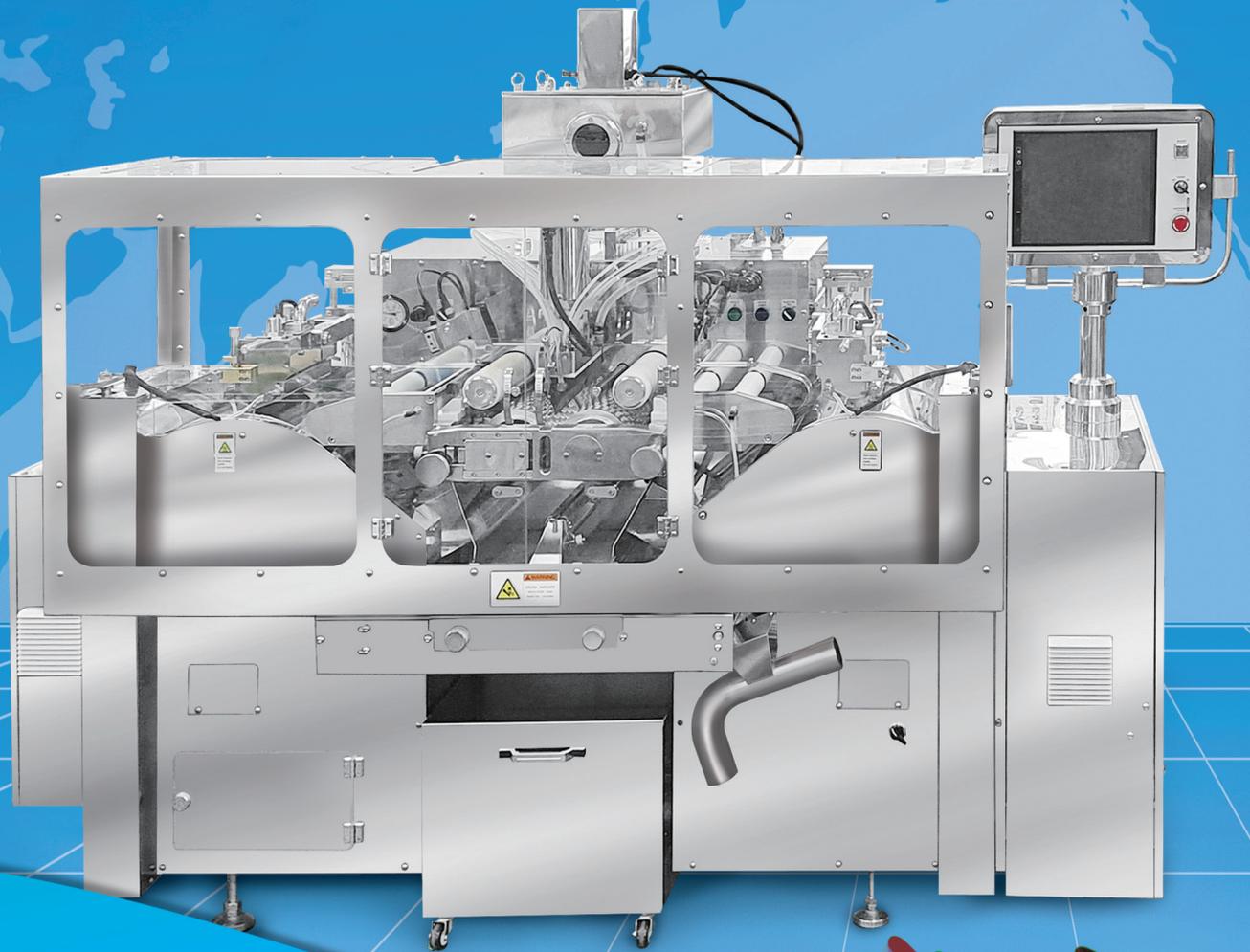


# GLOBAL BOCHANG

AUTOMATIC SOFT GELATIN CAPSULE MANUFACTURING SYSTEM



Registered ISO 9001:2015  
Registered ISO 14001:2015



COC - DOC CERTIFICATION  
COC : FIV PRODUCT SERVICE

Venture for  
Tomorrow

[www.bochangmc.com](http://www.bochangmc.com)



**BOCHANG CO., LTD.**

# BOCHANG'S PROFILE

Bochang's engineering staff has been providing precision soft gelatin capsule encapsulators the pharmaceutical and food industries for over 30 years.

During that period, Bochang has built expertise and knowledge necessary to develop the finest high precision soft gelatin encapsulator with improved performance and increased productivity.

We always try to satisfy our customers.

- **Establish in 1994.**
- **ISO 9001:2015**
- **ISO 14001:2015**
- **CE Certificate of Conformity 2006/42/EC (Machinery)**
- **18 Patents for Encapsulation Machine.**

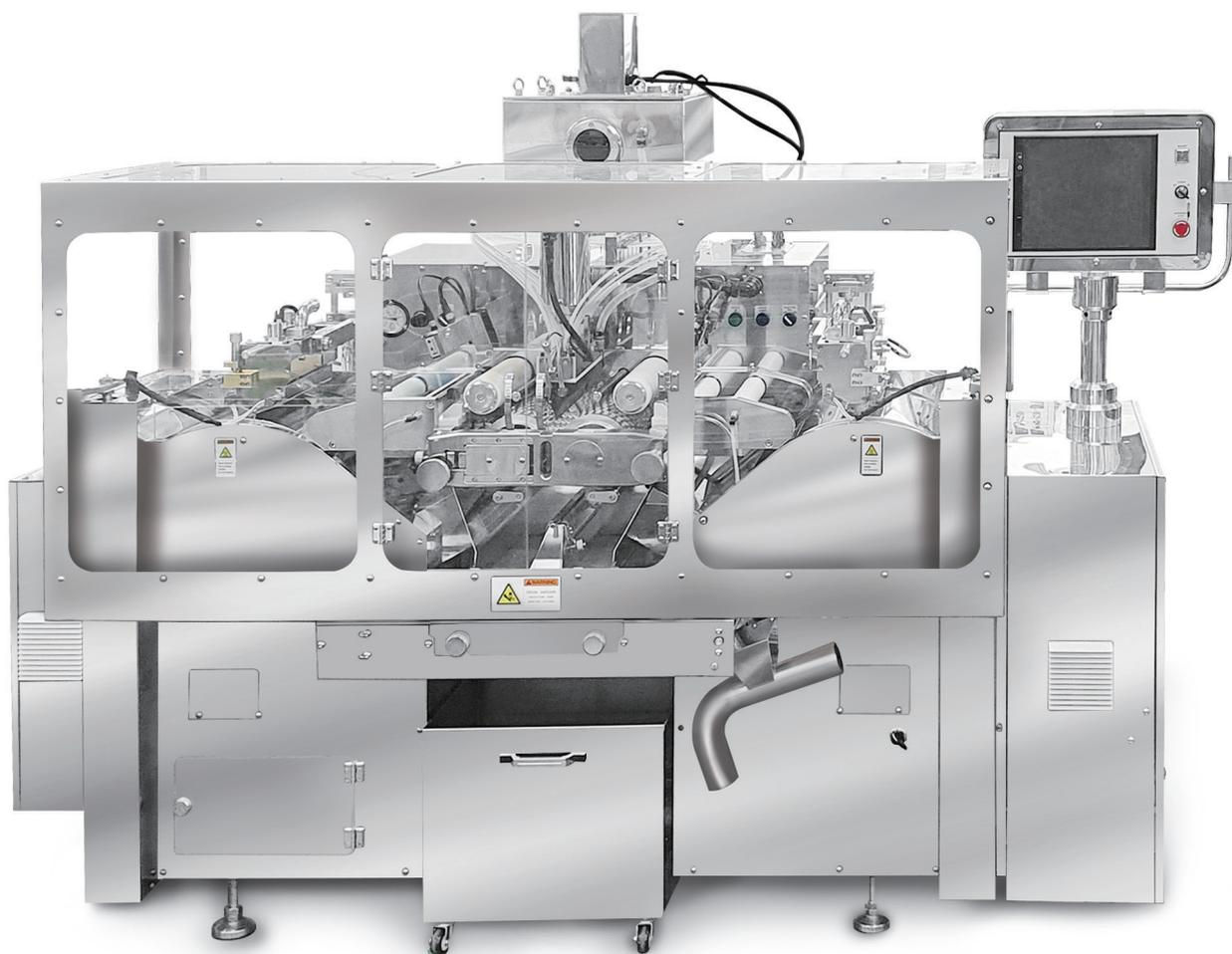
# ENCAPSULATION M/C FOR SOFT CAPSULE

## CHARACTERISTICS

- Compliance c-GMP
- Self-lubrication Filling Pump (Bochang Patent)
- Precise medicine filling pump
- Servo controlled Drive motor
- Filling time and Filling Volume control at the HMI(touch Screen)
- Easy Maintenance
- Optionable Item
  - Safety Front Cover (Up & Down by Pneumatic Switch)
  - Compliance 21 CFR Part 11

## MODEL: BCM-GB21-SV & GB22-SV

MAIN ENCAPSULATION M/C WITH TUMBLE DRYER



**BEST QUALITY AND BEST PERFORMANCE IN THE WORLD**

MODEL	DIE ROLL SIZE	TUMBLE BUCKET #	RPM (MAX)	RPM(WORKING)
BCM-GB21-SV	Ø150 X 250(L)mm	4 (Ø578 X 768)	6 RPM	3~4 RPM
BCM-GB22-SV	Ø150 X 305(L)mm	6 (Ø578 X 768)	6 RPM	3~4 RPM

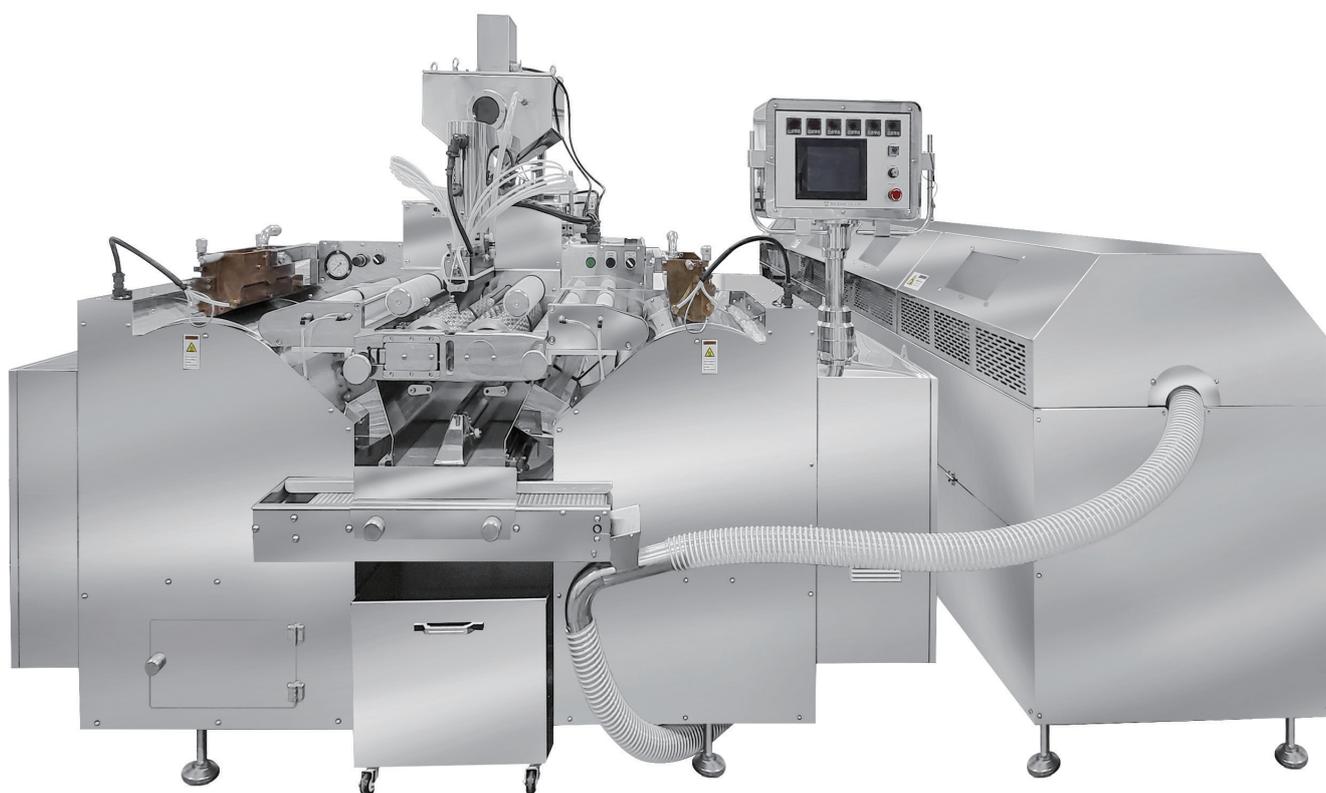
# ENCAPSULATION M/C FOR SOFT CAPSULE

## CHARACTERISTICS

- Compliance c-GMP
- Self-lubrication Filling Pump (Bochang Patent)
- Precise medicine filling pump
- Easy Maintenance
- Optionable Item
  - Safety Front Cover (Up & Down by Pneumatic Switch)
  - Compliance 21 CFR Part 11
  - Motorized control filling volume

## MODEL : BCM-GB SERIES

MAIN ENCAPSULATION M/C WITH TUMBLE DRYER



## BEST QUALITY AND BEST PERFORMANCE IN THE WORLD

MODEL	DIE ROLL SIZE	TUMBLE BUCKET #	RPM (MAX)	RPM(WORKING)
BCM-GB5	Ø105 X 185(L)mm	3 (Ø578 X 768)	6 RPM	3~4 RPM
BCM-GB6	Ø150 X 250(L)mm	4 (Ø578 X 768)	6 RPM	3~4 RPM
BCM-GB6-GFS	Ø150 X 250(L)mm	6(Ø578 X 768)	6 RPM	3 ~ 4 RPM(GELATIN) 2 ~ 2.5 RPM(VEGE)
BCM-GB7	Ø150 X 290(L)mm	6(Ø578 X 768)	6 RPM	3 ~ 4 RPM
BCM-GB6-GFS	Ø150 X 290(L)mm	8 (Ø578 X 768)	6 RPM	3 ~ 4 RPM(GELATIN) 2 ~ 2.5 RPM(VEGE)

# CAPSULE SHELL PREPARATION SYSTEM

## GELATIN MELTING TANK



### CHARACTERISTICS

- All contact part STS316L
- Open Top(Lid) Type
- Easy Cleaning
- Including Vacuum Pump (Water sealed type)
- Heating Source: Electric Heater

### SPECIFICATIONS

- Capacity(Working Capacity)  
600(300)L, 800(450)L, 1000(550)L
- Electric Power : 380V 3P 50/60Hz (Basic)  
(Changeable by customer's requirement)
- Including Vacuum Pump (Water sealed type)
- Material  
Contact Parts : STS316L &  
Food Grade Material

## COLOR MIXER



- Capacity : 250L ~ 400L
- Electric Power : 380V 3P 50/60Hz  
(Changeable by customer's Option)
- Material  
Contact Parts : STS316L &  
Food Grade Material

## PIGMENT MIXER



- Capacity : 5 ~ 10L
- Electric Power : 380V 3P 50/60Hz  
(Changeable by customer's Option)
- Material  
Contact Parts : STS316L &  
Food Grade Material

## GELATIN SERVICE TANK



- Capacity : 250L, 300L, 400L
- Electric Power : 220V 1P 50/60Hz
- Material  
Contact Parts : STS316L &  
Food Grade Material

# CAPSULE SHELL PREPARATION SYSTEM

## VEGE GEL MELTING TANK



### CHARACTERISTICS

- All contact part STS316L
- Open Top(Lid) Type
- Double Mixing System  
(High Speed Mixer & Low Speed Agitator)
- Easy Cleaning
- Including Vacuum Pump (Water sealed type)
- Heating Source: Electric Heater

### SPECIFICATIONS

- Capacity(Working Capacity)  
450(200)L, 600(300)L
- Electric Power : 380V 3P 50/60Hz (Basic)  
(Changeable by customer's requirement)
- Including Vacuum Pump (Water sealed type)
- Material  
Contact Parts : STS316L &  
Food Grade Material

## VEGE GEL PRE-MIXER



### CHARACTERISTICS

- All contact part STS316L
- It is used to mix the material  
(Starch, Carrageenan) with water(or Glycerin) before  
added to Vege Gel melting system.

### SPECIFICATIONS

- Capacity : 100L ~ 300L
- Electric Power : 380V 3P 50/60Hz (Basic)  
(Changeable by customer's requirement)
- Material  
Contact Parts : STS316L &  
Food Grade Material

# CAPSULE CONTENTS PREPARATION SYSTEM

## MIXING MACHINE



- Capacity : 300L, 800L
- Electric Power : 380V 3P 50/60Hz  
(Changeable by customer's Option)
- Material  
Contact Parts : STS316L

## VACUUM MIXING MACHINE



- Capacity : 300L, 800L
- Electric Power : 380V 3P 50/60Hz  
(Changeable by customer's Option)
- Material  
Contact Parts : STS316L

## COLLOID MILL



- Capacity : 70 ~ 900 kg/H
- Electric Power : 380V 3P 50/60Hz  
(Changeable by customer's Option)
- Material  
Contact Parts : STS316L  
Stone Mill : Al<sub>2</sub>O<sub>3</sub>

## SIEVE (with Scraper)



- Screen Size: 60 Mesh
- Electric Power : 220V 1P 50/60Hz  
(Changeable by customer's Option)
- Material  
Contact Parts : STS316L &  
Food Grade Material

## MEDICINE TRANSFER PUMP



- Capacity : 0.11 l/1rev
- Electric Power : 380V 3P 50/60Hz  
(Changeable by customer's Option)
- Material  
Contact Parts : STS316L

## MEDICINE SERVICE TANK & STIRRER



- Capacity : 300L, 600L, 800L
- Electric Power : 220V 1P 50/60Hz  
(Changeable by customer's Option)
- Material  
Contact Parts : STS316L

# DRYING CAPSULE

## INDIVIDUAL (BATCH) TUMBLE



### CHARACTERISTICS

- Programable Speed Control by PLC
- Good shaped Capsule after drying.
- Uploading Weight up to 130kg
- Contact Parts: STS316L & Food Grade Material

### SPECIFICATIONS

- Capacity : 80,000 capsules with 20 Oblong
- Electric Power : 380V 3P 50/60Hz (Basic) (Changeable by customer's requirement)
- Material Contact Parts : STS316L & Food Grade Material

## DRYING TRAY & DOLLY



### SPECIFICATIONS (TRAY)

- 1000Caps(#20Oblong)/1 tray
- Material : PP (Poly Propylene)

### SPECIFICATIONS (TRAY)

- Capacity : 50 Trays / 1 dolly
- Material Body : STS304 Wheel : PU with zinc plated steel bracket

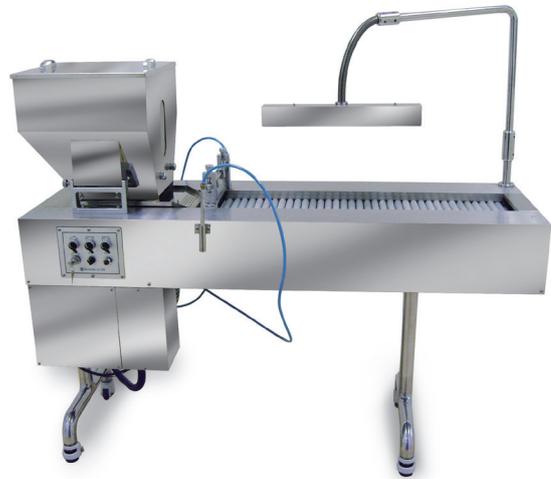
# SORTING, INSPECTION, POLISHING & RECYCLING

## CAPSULE SORTING MACHINE



- Capacity : 100,000 ~ 500,000 Caps/1HR
- # of Track: 4, 6, 8 Tracks (Option)
- Electric Power : 380V 3P 50/60Hz  
(Changeable by customer's Option)
- Material  
Contact Parts : STS316L  
Roller : SS41 with Hard Chrome Coating

## INSPECTION MACHINE



- Electric Power : 380V 3P 50/60Hz  
(Changeable by customer's Option)
- Material  
Roller : Aluminum Bar (Teflon Coating)

## POLISHING MACHINE



- Capacity : 40,000 capsules with 20 Oblong
- Electric Power : 380V 3P 50/60Hz  
(Changeable by customer's Option)
- Material  
Contact Parts : Contact Parts : STS316L &  
Food Grade Material

## Colloid Mill



- Recycling the medicine from rejected capsules
- Electric Power : 380V 3P 50/60Hz  
(Changeable by customer's Option)
- Material  
Contact Parts : STS316L

# R&D SCALE EQUIPMENTS FOR MAKING SOFT CAPSULE

**MODEL : BCM-R&D(GB3)**



**GELATIN MELTING TANK**



**GELATIN SERVICE TANK**



# CAPSULE SIZE & SHAPE

Oblong						
	3 Oblong minims : 2.3 - 3.0 cc : 0.142 - 0.185	4 Oblong minims : 3.0 - 4.0 cc : 0.185 - 0.246	5 Oblong minims : 4.0 - 5.0 cc : 0.246 - 0.308	6 Oblong(2) minims : 5.0 - 6.0 cc : 0.308 - 0.370	8 Oblong minims : 6.5 - 8.0 cc : 0.400 - 0.493	
						
	9½ Oblong minims : 7.5 - 9.5 cc : 0.462 - 0.585	11 Oblong(1) minims : 8.5 - 11.0 cc : 0.524 - 0.678	11 Oblong(3) minims : 8.5 - 11.0 cc : 0.524 - 0.672	14 Oblong minims : 12.5 - 14.0 cc : 0.770 - 0.862		
						
	16 Oblong minims : 14.5 - 16.0 cc : 0.862 - 0.986	20 Oblong minims : 16.0 - 20.0 cc : 0.986 - 1.232	22 Oblong minims : 18.0 - 22.0 cc : 1.109 - 1.355	24 Oblong minims : 20.0 - 24.0 cc : 1.232 - 1.478		
	Round					
		1 Round minims : 0.75 - 1.0 cc : 0.046 - 0.062	2 Round minims : 1.2 - 2.0 cc : 0.074 - 0.124	3 Round minims : 2.2 - 3.0 cc : 0.136 - 0.185	4 Round minims : 2.8 - 4.0 cc : 0.172 - 0.246	5 Round minims : 3.2 - 5.0 cc : 0.197 - 0.308
						
6 Round minims : 4.6 - 6.0 cc : 0.283 - 0.370		7 Round minims : 5.0 - 7.0 cc : 0.308 - 0.431	9 Round minims : 7.0 - 9.0 cc : 0.431 - 0.554	15 Round minims : 12.0 - 15.0 cc : 0.740 - 0.925	20 Round minims : 15.0 - 20.0 cc : 0.925 - 1.230	
Oval						
	2 Oval minims : 1.5 - 2.3 cc : 0.092 - 0.142	3 Oval minims : 2.4 - 3.0 cc : 0.148 - 0.185	4 Oval minims : 3.1 - 4.0 cc : 0.191 - 0.246	4 Oval(2) minims : 3.1 - 4.0 cc : 0.191 - 0.246	5 Oval minims : 4.3 - 5.0 cc : 0.265 - 0.308	
						
	7½ Oval minims : 6.2 - 7.5 cc : 0.382 - 0.462	8½ Oval minims : 7.0 - 8.5 cc : 0.431 - 0.524	10 Oval minims : 7.5 - 10.0 cc : 0.462 - 0.616	12 Oval minims : 8.3 - 12.0 cc : 0.511 - 0.739	16 Oval minims : 12.4 - 16.0 cc : 0.764 - 0.986	20 Oval minims : 17.0 - 20.0 cc : 1.047 - 1.232
	Tubs				Suppository	
8 Tubs minims : 6.0 - 8.0 cc : 0.370 - 0.493		17½ Tubs minims : 15.0 - 17.0 cc : 0.924 - 1.047	6 Suppository minims : 5.0 - 6.0 cc : 0.308 - 0.370			
						
30 Tubs(1) minims : 27.0 - 32.0 cc : 1.663 - 1.971	10 Suppository minims : 7.0 - 10.0 cc : 0.430 - 0.620	17 Suppository(1) minims : 15.0 - 20.0 cc : 0.924 - 1.232	8 Twist-off 493ml	Twist-off		

# MEMO



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