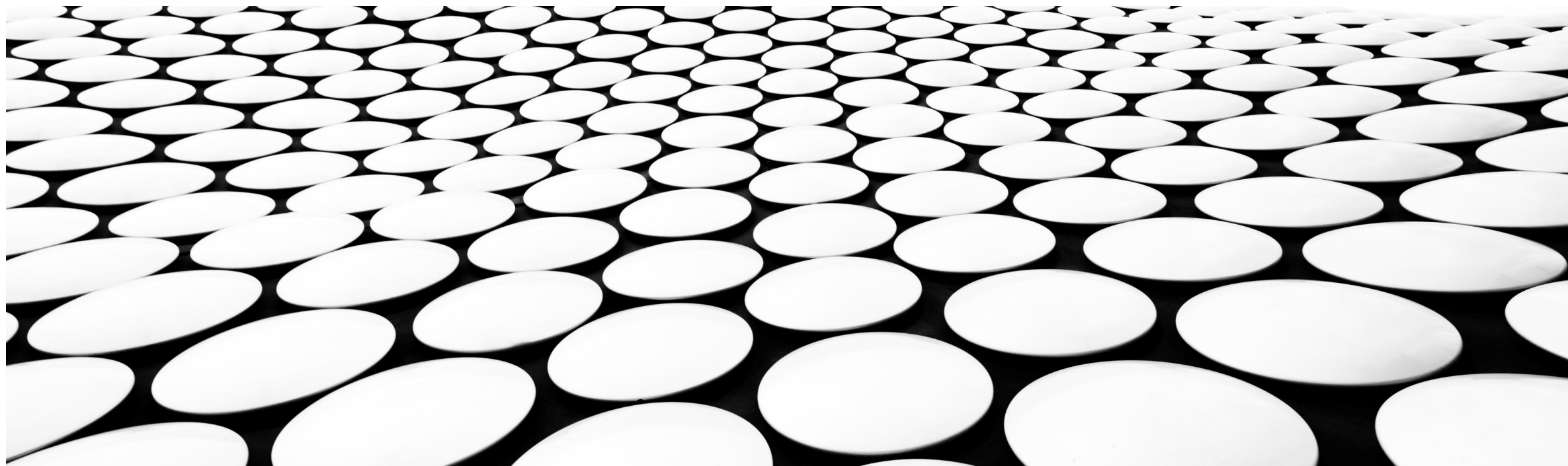


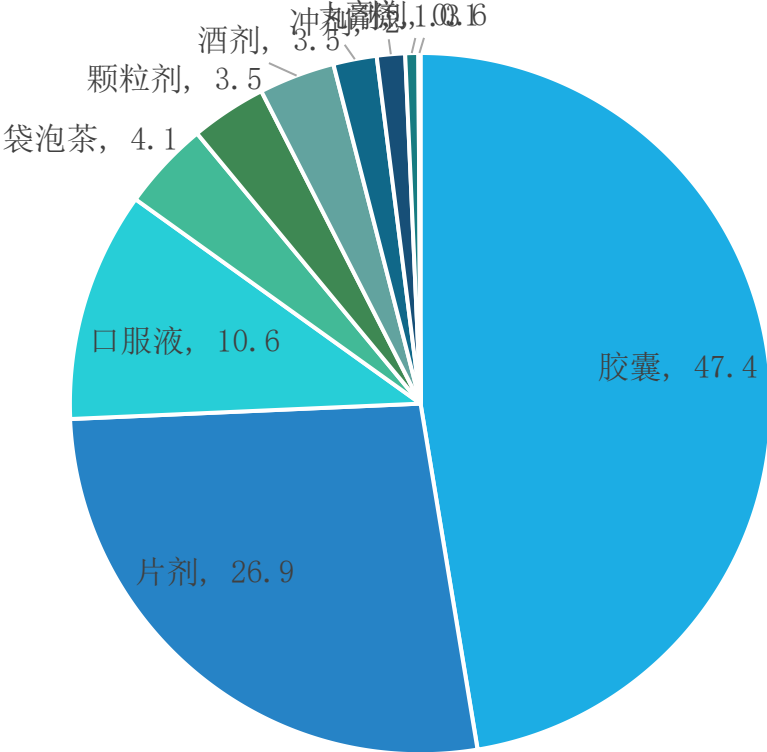
---

# 新剂型在保健食品中的应用

苏龙



# 保健食品的剂型



---

看到什么

口服

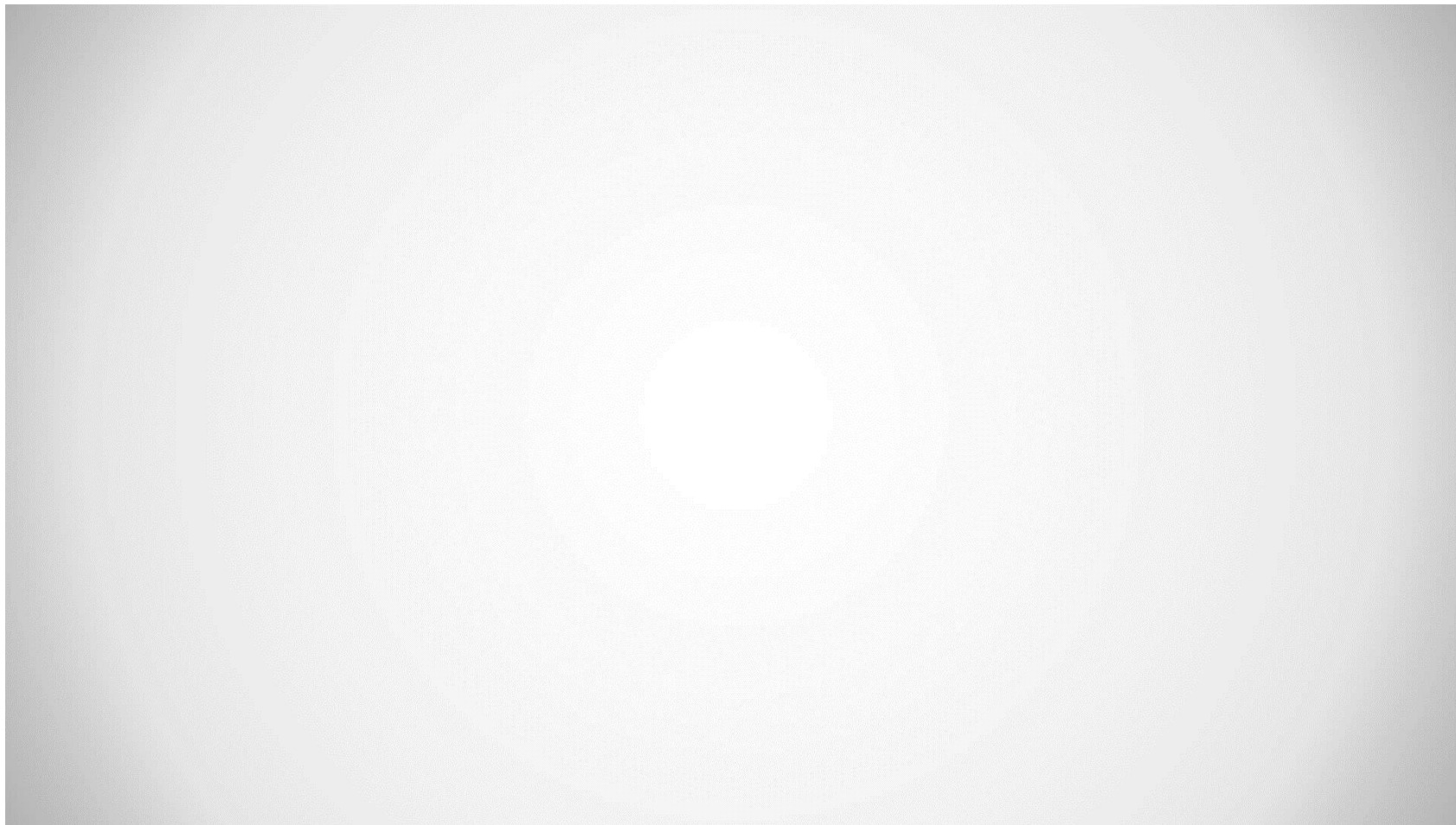
传统中医药  
(丸、散、膏、丹)

胃肠道吸收

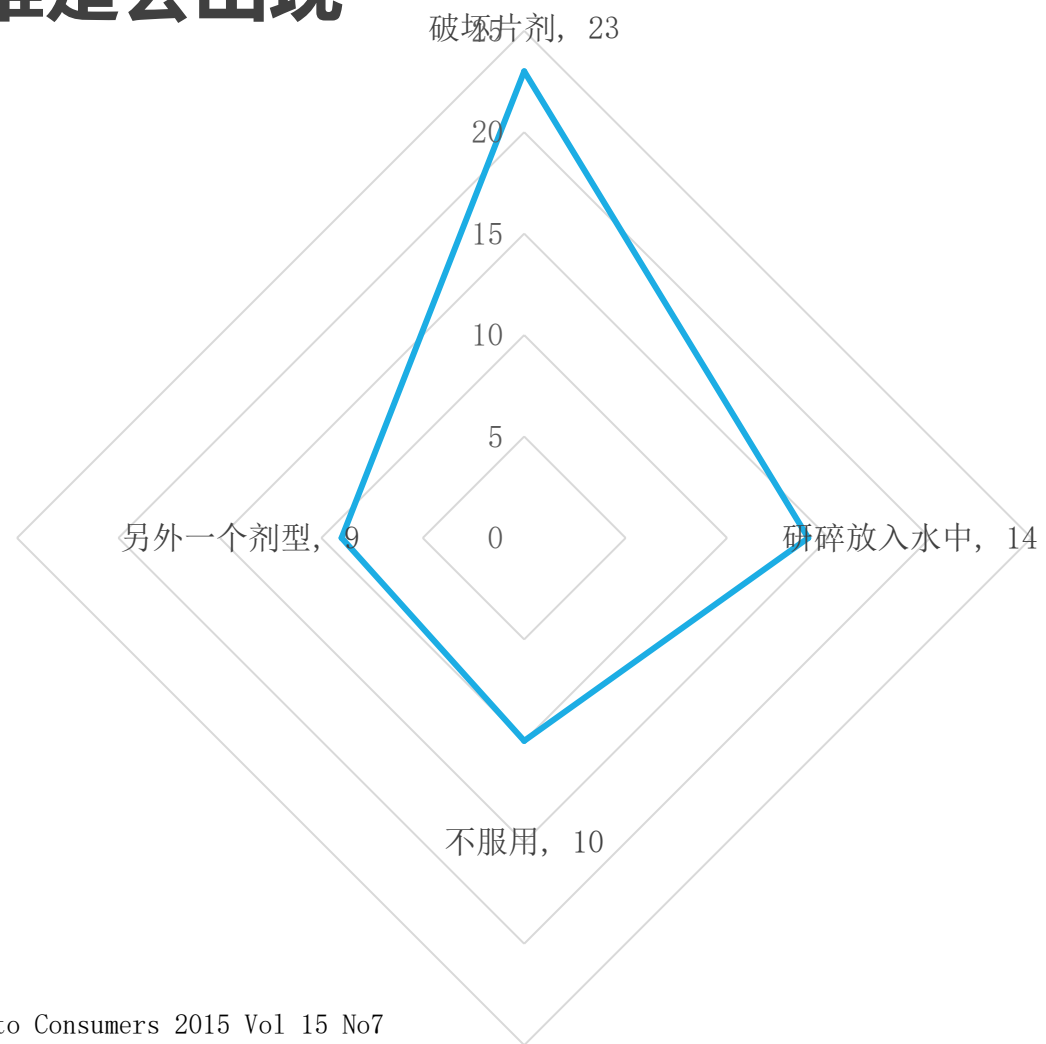
固体&液体&半固体

---

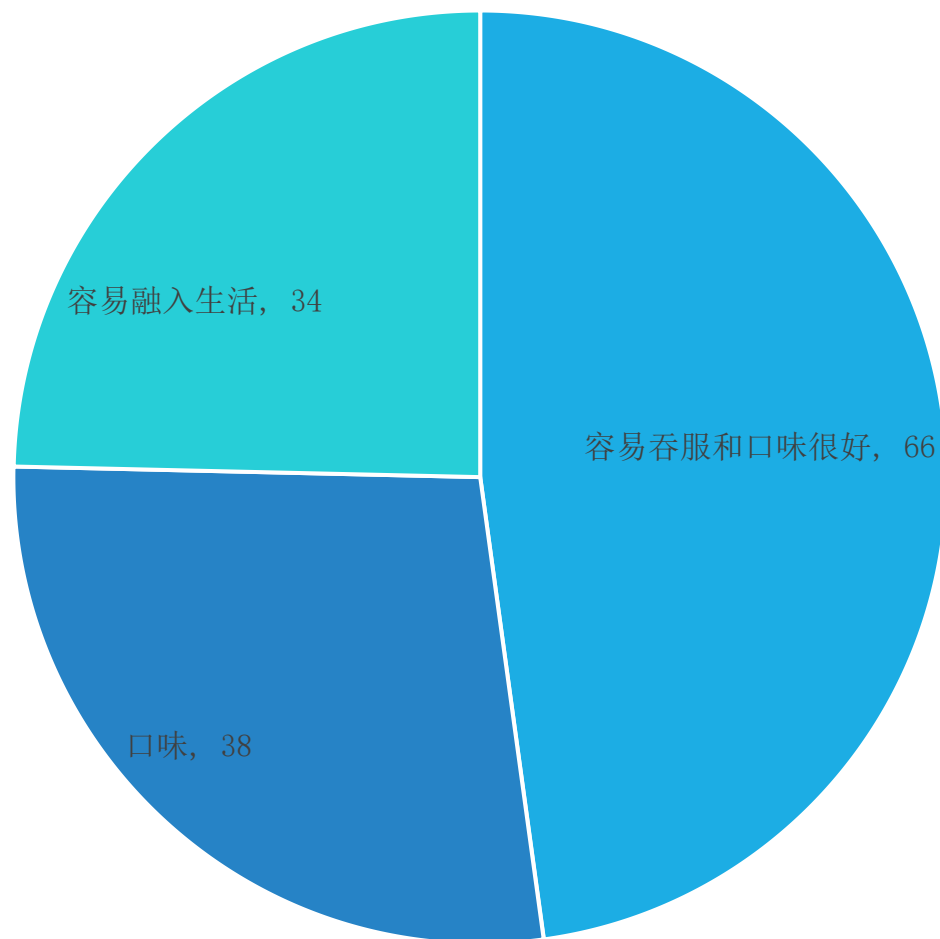
# 你是否也有这样的经历



# 片剂和胶囊的吞咽困难是会出现



# 消费者的希望





# 国外的趋势



**Goop Wellness Nerd Alert Dietary Supplement: 30 Soft Chews with Cafe au Lait Flavor (US).** Nerd Alert is a synergistic blend of L-theanine and caffeine. Comes in 30 soft chews with cafe au lait flavor, held in a resealable plastic bottle. Clear focus and increased energy. Nerd Alert gives a bite-size mental boost with two nootropics (i.e. cognitive supporters): L-theanine and caffeine. As a pair, they are more effective at improving scores on tests of memory, accuracy, and attention than either ingredient alone. Non GMO. Gluten free. <sup>33</sup>



**Go Natural Lentil & Chickpea Probiotic Chips Barbecue Flavour (Australia).** Lentil and chickpea chips with barbecue flavor, in a 100 g plastic packet. 17 g protein per pack. 1 billion probiotics per pack. 13.5 g fiber per pack. Gluten free. GMO free. Vegetarian. Egg free. Prebiotics. No preservatives. No artificial colors or sweeteners. Health star rating: 3. Nutritious and delicious with every crispy crunch. <sup>33</sup>



**ProGo Healthy Bar Red Berries Healthy Bar with Probiotics and Prebiotics (Mexico).** Oats and puffed with red berries, probiotics and prebiotics, in a 30 g plastic packet. 1 billion of probiotics per bar. Healthy bar. Vegan product. ProGo is an oats and puffed rice bar made the artisan way with natural ingredients with berries. Each bar ProGo contains prebiotics and 1 billion CFUs of probiotics. <sup>33</sup>



**Peppa Pig Ocean Bomb Mixed Fruit Gummy (Taiwan).** Mixed fruit flavored gummies in a 30 g plastic resealable pouch featuring Peppa Pig. Natural flavorings and coloring. No preservatives. With added vitamin C and Lactobacillus. <sup>33</sup>



**Innocent Super Smoothie Fortify Pineapple, Guava, Lime, Flax Seeds and Baobab Smoothie with Vitamins B1, B2, B3, B6, C and E (Netherlands).** Pineapple, guava, lime, flax seeds and baobab smoothie with added vitamins B1, B2, B3, B6, C and E, in a PET bottle. Not from concentrate. No additives. The Innocent promise: tastes good, does good. 10 percent profits to charity. Recyclable packaging. <sup>33</sup>



**This Isn't Chicken Plant-Based Goujons with Breadcrumbs (UK).** Plant-based chicken-style goujons with bread crumbs in a 300 g carton box. Plant-based. Suitable for vegetarians and vegans. High protein. Fortified with vitamins B12 and iron. GMO-free. The packaging is 90 percent free of plastic. Recyclable packaging. <sup>33</sup>



**Eat Pretty – Glow Habit Good Skin Habit Dietary Supplement: 90 Vegan Gummies with Guava Flavor (US).**

Good Skin Habit dietary supplement with hyaluronic acid, bamboo extract and vitamin C helps to support skin hydration and texture. Comes in 90 vegan gummies with guava flavor, in a plastic bottle. <sup>33</sup>



**Macronutrient Makeover – Sci MX Chocolate Hazelnut Protein Cookie (UK).** High-protein chocolate chip cookie with chocolate hazelnut filling and sweeteners, in a 75 g plastic packet. Contains 20 g protein, 29 g carbs, 263 calories and 1.5 g sugar. For pre- and post-workout snack. Suitable for vegetarians. <sup>33</sup>



**Flora ProActive Vegetable Fat Spread (Australia).** Vegetable fat spread ideal for spreading, cooking, and baking, in a 500g plastic tray. Reduces blood pressure. With plant sterols clinically proven to lower cholesterol. Recyclable packaging. Low salt. <sup>33</sup>



**Alpro More Fruit No Added Sugars Soya Yogurt: Raspberry Apple (Finland).** Raspberry and apple flavored soy yogurt with no added sugar, in a PP (5) tray. Enjoy plant power. Made with more fruits. No added sugars. No sweeteners. Made only with sugars from fruits. Added with calcium and vitamins. Naturally lactose-free. Contains yogurt cultures. V-Label Vegan logo. Green Dot Certified. Contains naturally occurring sugars from fruit. Source of plant protein. Naturally low in fat. Recyclable packaging. Free from dairy and gluten. <sup>33</sup>



**The Plant-Based Revolution – Muir Energy Fast Burning Energy Gel with Red Raspberry Flavor (US).** Red raspberry flavored energy gel in a 30 g plastic sachet. Contains 110 calories. Handmade and plant-based. Mate caffeinated. Vegan. Organic. Paleo. Gluten-free. Non-GMO. <sup>33</sup>



**Bol Creamy Coconut, Corn and Sweet Potato Soup (UK).** Super soup, bursting with creamy coconut, sweet potato, corn, red peppers and red quinoa. This Peruvian-style plant-based chowder is three of your five-a-day and high in fiber. With a naturally sweet and creamy flavor, it's rich in vitamin A to help support your immune system all year-round while bringing a flavor of Peru to the British summertime. <sup>33</sup>



**Swedish Nutra Collagen Joint Support Liquid Food Supplement: Natural Berry Flavor (Ireland).** Collagen joint support food supplement with natural berry flavor, in a 500ml plastic bottle. Contains collagen, glucosamine and chondroitin. Support strong joint health. Made with non-GMO and naturally free from gluten, soy, egg, nut and lactose. 100 percent natural flavor and color. Strong osteoarthritis formulation. <sup>33</sup>

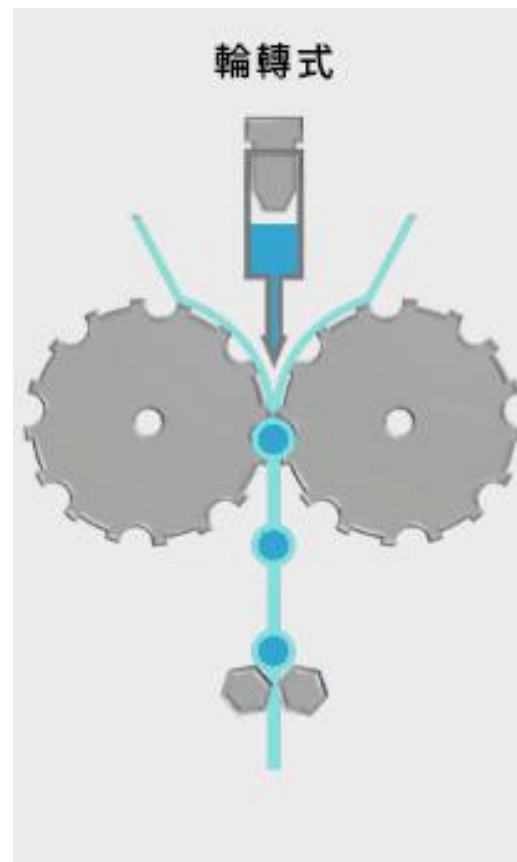
# 软胶囊剂型创新讨论

## 軟膠囊(软胶囊)的「兩種製法」

軟膠囊的製造方法是於形成皮膜的同時，填充內容物。其製造原理有二：

第一種，採用輪轉式製法，將兩片薄膜重疊、密合地放在一對滾筒型模型中間，於其中注入藥品液體等物的同時，模型進行壓切、壓接，這種方法也稱做「沖壓法」。

第二種是無縫式，採用同心雙重的噴頭，內側填裝藥液等，外側則是含有膠化劑等的皮膜用液，各自滴下液體，利用表面張力製造出有雙重構造的無縫球體膠囊，也稱做「滴落法」。





# 软胶囊剂型创新讨论



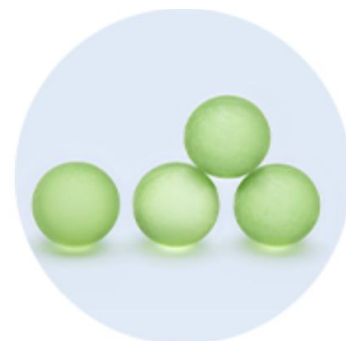
打印的软胶囊



迷你软胶囊



咀嚼双层软胶囊



爆浆软胶囊



¥249.00

GNC健安喜家庭量贩装深海无腥鱼油柠檬香味1000mg360粒健脑护



¥279.00

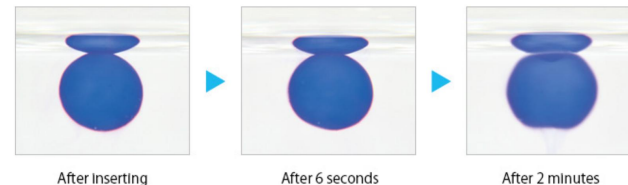
GNC健安喜三倍迷你鱼油120粒无鱼腥软胶囊高浓缩维护心脑血管健



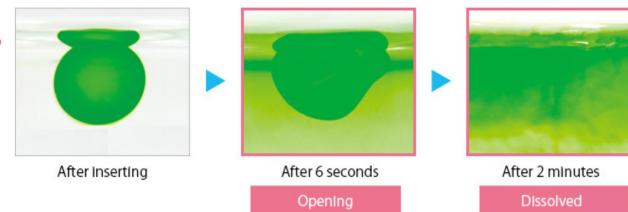
快速释放口腔软胶囊

## Comparison of disintegration capacity

Traditional gelatin capsule



Quick-release capsule for the mouth



\* Conceptual photograph based on results of disintegration tests.

# 中国的食品生产许可办法的许可分类

食品：26类 VS 18类

空间有了，大家可以想象

保健食品	2701	片剂	具体品种	
	2702	粉剂	具体品种	
	2703	颗粒剂	具体品种	
	2704	茶剂	具体品种	
	2705	硬胶囊剂	具体品种	
	2706	软胶囊剂	具体品种	
	2707	口服液	具体品种	
	2708	丸剂	具体品种	
	2709	膏剂	具体品种	
	2710	饮料	具体品种	
	2711	酒剂	具体品种	
	2712	饼干类	具体品种	
	2713	糖果类	具体品种	
	2714	糕点类	具体品种	
	2715	液体乳类	具体品种	
	2716	原料提取物	具体品种	
	2717	复配营养素	具体品种	
	2718	其他类别	具体品种	

---

## 可以想象的未来

保健食品食品化，剂型越来越常规化，而不再仅限于片剂胶囊



谢谢