

**NEWS RELEASE**

September 13, 2019

**Otsuka Pharmaceutical Factory launches a concentrated liquid diet product “Hine E-Gel® LC,” a new line of “Hine E-Gel®” which changes from a liquid to a gel in the stomach**

Otsuka Pharmaceutical Factory, Inc. (Head Office: Naruto, Tokushima, Japan; President and Representative Director: Shinichi Ogasawara; “OPF”) will launch “Hine E-Gel® LC,” a new addition to the existing line of concentrated liquid diet product “Hine E-Gel®” on October 1, 2019.

Hine E-Gel LC is a new concentrated liquid diet product which contains less carbohydrate than Hine E-Gel.<sup>\*1</sup> In addition, it contains L-carnitine.<sup>\*2</sup> A 250-mL bag (200 kcal), which was not available in Hine E-Gel products, has also been added as a new item. The product is expected to be used depending on the patient’s condition: for patients who start with a small amount of food and then increase the amount gradually or for pediatric patients whose diet is managed with a small amount.

A solid is generally excreted more slowly from the stomach than a liquid and its backflow to the esophagus rarely occurs. Accordingly, in the concentrated liquid food sector, jelly food has been developed, sold, and used. As with Hine E-Gel, the product containing collagen peptide and soybean peptide can be used for persons whose standard calorie intake is 1200 to 1600 kcal per day. It is an oligomeric formula which changes its property from a liquid to a gel in the stomach.<sup>\*3</sup>

OPF has marketed Hine Bag, Hine Jelly, Hine Jelly Aqua, and Hine E-Gel as concentrated liquid food products and has been contributing to the nutrition status of patients. OPF aims to be the best partner in clinical nutrition by further expanding its line of nutritional food products and continuously providing information and products which are useful for proper nutrition management.

Based on the corporate philosophy of “Otsuka-people creating new products for better health worldwide,” the Otsuka Group is dedicated to contributing to the health of people around the world.

<sup>\*1</sup> The amount of carbohydrate per 100 kcal has been changed from 15.4 g to 11.8 g.

<sup>\*2</sup> L-carnitine: A micronutrient which plays an important role in production of energy by fat.

<sup>\*3</sup> Formation of a gel can occur in persons with normal gastric acid secretion because the product changes to a gel under acidic conditions; however, it may vary among individuals.

**Product characteristics**

- Contains pectin, one of the dietary fiber and has a gel form under acidic conditions; has the ability to change from a liquid to a gel under acidic conditions
- An oligomeric formula which contains collagen peptide and soybean peptide
- Contains 25 mg of L-carnitine per 100 kcal

- The proportion of three major nutrients: 50 % for carbohydrate, 34% for fat, and 16% for protein
- Supplies 110 mL of water per 100 kcal, providing a good source of hydration
- Can be easily handled as a liquid nutrition product

### Product information

Brand name	Hine E-Gel LC		
Category	Concentrated liquid diet		
Ingredients	Maltodextrin (manufactured in Japan), vegetable oil, porcine collagen peptide (gelatin), medium-chain triglycerides, enzyme decomposed soybean protein, yeast, carnitine, kelp extract/thickener (polysaccharide thickener), lysine, sodium pyrophosphate, magnesium chloride, potassium hydroxide, acidulant, leucine, calcium phosphate (soybean-derived), vitamin C, potassium chloride, threonine, isoleucine, valine, methionine, phenylalanine, crystalline cellulose, histidine, tryptophan, flavors, vitamin E, niacin, iron pyrophosphate, calcium pantothenate, vitamin B <sub>6</sub> , vitamin B <sub>1</sub> , vitamin B <sub>2</sub> , vitamin A, folic acid, vitamin K <sub>2</sub> , vitamin D, and vitamin B <sub>12</sub> .		
Nutrition facts (per 100 mL)	Calories 80 kcal, protein 3.2 g, fat 3.0 g, carbohydrates (sugar 9.4 g, dietary fiber 1.2 g), salt equivalent 0.34 g		
	Water 88g		
Packaging	250 mL × 21 bags 	375 mL × 16 bags 	500 mL × 12 bags 
Suggested retail price (excluding tax) <sup>*4</sup>	330 JPY/bag (250 mL)	372 JPY/bag (375 mL)	455 JPY/bag (500 mL)
Best before date	9 months after manufacturing date		
Storage	Store in a dark place. The product can be stored at room temperature, but should preferably be stored in a cool place. Avoid storing in freezing environment.		
Distributor	Otsuka Pharmaceutical Factory, Inc.		

Manufacturing site	EN Otsuka Pharmaceutical Co., Ltd. 4-3-5, Nimaibashi, Hanamaki-shi, Iwate
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\*4 The price is shown as a reference price.

The product contains soybean and gelatin. Do not consume the product if you are allergic to these ingredients.

### Company Profile

#### Otsuka Pharmaceutical Factory, Inc.

Established	:	October 7, 1969 (founded September 1, 1921)
Capital	:	80 million yen
Representative	:	Shinichi Ogasawara, President and Representative Director
Head Office	:	115 Kuguhara, Tateiwa, Muya-cho, Naruto, Tokushima 772-8601, Japan
Employees	:	2,266 (as of December 31, 2018)
Business Description	:	Manufacture, sale, import and export of clinical nutrition products and other pharmaceutical products, medical devices, functional foods, etc.
URL	:	<a href="https://www.otsukakj.jp/en/">https://www.otsukakj.jp/en/</a>