

November 26, 2020

**Otsuka Pharmaceutical Factory launches
ENEFLUID® Injection, the amino acid, glucose, electrolyte, fat,
and water-soluble vitamin injection**

Otsuka Pharmaceutical Factory, Inc. (Head Office: Naruto, Tokushima, Japan; President and Representative Director: Shinichi Ogasawara; “OPF”) will launch “ENEFLUID® Injection,” the amino acid, glucose, electrolyte, fat, and water-soluble vitamin injection on December 15, 2020.

This product is the first peripheral parenteral nutrition solution in Japan that combines fat and water-soluble vitamins in addition to glucose, electrolytes, and amino acids in a dual-chamber bag. By compounding fat, more calories can be administered than the approved glucose, electrolyte, and amino acid infusions, and by compounding nine water-soluble vitamins (in accordance with the FDA 2000 formulation)¹ required for peripheral parenteral nutrition, nutrition can be managed with a single agent for approximately 1 to 2 weeks.

Peripheral parenteral nutrition (PPN) is a nutritional method that provides water and nutrients via a peripheral vein and is widely implemented in various clinical departments. Glucose, electrolyte, and amino acid infusions, commonly used as representative peripheral parenteral nutrition solutions, have low calories to be used as the main source of nutrition for patients in nutritional management for approximately 2 weeks, which is generally an indication for PPN; therefore, an intravenous fat emulsion is used concomitantly as needed in medical practice.


However, the intravenous fat emulsion is a drug that requires caution in its use, as mixing it with other drugs is contraindicated in terms of concerns of compatibility and prevention of bacterial contamination. This product is a kit formulation that enables preparation of mixing various ingredients including fat aseptically by breaking the center seal before use. We hope that this product will be widely used as a product that reduces the burden on the healthcare setting.

OPF aims to be the best partner for patients and healthcare professionals in the field of clinical nutrition by continuing to provide information and products which are useful for the proper nutritional 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.

¹ Vitamin formulation for parenteral nutrition issued by the Food and Drug Administration (FDA) in 2000.

Product Information

Brand name	ENEFLUID® Injection
Category	Amino acid, glucose, electrolyte, fat, and water-soluble vitamin injection (Ethical drug)
Packaging	 <p style="text-align: center;">550 mL × 20 bags 1100 mL × 10 bags</p>
Indications	<p>Provision of amino acids, electrolytes, calories, fatty acids, water-soluble vitamins, and water in the following instances:</p> <ul style="list-style-type: none"> - Mild hypoproteinemia or mild malnutrition due to inadequate oral intake - Before and after surgery
Dosage and administration	<p>The usual adult dose is 550 mL per dose, infused via a peripheral vein. The usual infusion rate in adults is 550 mL administered over 120 min.</p> <p>The dosage should be adjusted according to the patient's condition, age, and body weight.</p> <p>The maximum dosage is 2200 mL per day.</p>
Storage	Store at room temperature.
Expiration date	18 months
Date of launch	December 15, 2020
Drug price	1,059 JPY/550 mL (1 kit), 1,473 JPY/1100 mL (1 kit)
Manufactured and distributed by	Otsuka Pharmaceutical Factory, Inc.
Comarketed by	Otsuka Pharmaceutical Co., Ltd.

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	:	2,247 (as of December 31, 2019).
Business Description	:	Manufacture, sale, import and export of clinical nutrition products and other pharmaceutical products, medical devices, functional foods, etc.
URL	:	https://www.otsukakj.jp/en/