

Important Prescribing Information

November 3, 2017

Subject: Temporary importation of intravenous drug products to address drug shortages

Dear Healthcare Professional,

Due to the critical shortage of drug products resulting from Hurricane Maria, Baxter Healthcare Corporation (Baxter) is coordinating with the U.S. Food and Drug Administration (FDA) to increase the availability of products from Baxter manufacturing facility in the United Kingdom (UK).

Baxter has initiated temporary importation of SYNTHAMIN 17 without Electrolytes 10% Amino Acid Intravenous Infusion. This product is manufactured by Baxter's manufacturing facility in the UK and marketed in the UK. At this time, no other entity except Baxter is authorized by the FDA to import or distribute these products in the United States. FDA has not approved the listed products manufactured by Baxter's manufacturing facility in the UK.

Effective immediately, and during this temporary period, Baxter will offer the following:

Product name and description	Size	Product code	Pack Factor	NDC
SYNTHAMIN 17 without Electrolytes 10% Amino Acid Intravenous Infusion	3000 mL	FKB6642	3	0338-9575-03

It is important to note the following:

- The imported SYNTHAMIN 17, 10% Amino Acid and TRAVSOL 10% contain the same amino acid profile and are therapeutically equivalent formulations.
- This product has not been tested for aluminum content and this should be taken into consideration, especially when administering to preterm and term infants less than 1 month of age and patients with renal impairment.
- The imported Synthamin 17, 10% Amino Acid product does not contain added sulfites and is considered sulfite-free.
- For SYNTHAMIN 17, 10% Amino Acid Intravenous Infusion product supplied in a clear overpouch, keep container in the outer carton in order to protect from light.
- **Prior to use, it is important to check for leaks** by squeezing the inner bag firmly. If leaks are found, discard solution as sterility may be impaired. Additionally, check to see that solution is clear and free of foreign matter. Discard the solution if solution is not clear.

The barcode may not register accurately on the U.S. scanning systems. Institutions
should manually input the product into their systems to confirm that barcode systems do not
provide incorrect information when the product is scanned. Alternative procedures should be
followed to assure that the correct drug product is being used and administered to individual
patients.

There are some key differences in the labeling between the U.S. marketed products and the imported products. Please see the product comparison tables at the end of this letter for the key differences between TRAVASOL 10% and SYNTHAMIN 17, 10% Amino Acid products. Refer to Table 2 (below) for a comparison.

Please refer to the FDA-approved package insert for the full prescribing information of TRAVASOL 10% (Amino Acids) Injection at:

 $\frac{https://www.dailymed.nlm.nih.gov/dailymed/getFile.cfm?setid=8543b5be-0f43-4891-9e56-d7c39fe839b5\&type=pdf\&name=8543b5be-0f43-4891-9e56-d7c39fe839b5}{}$

If you have any questions about the information contained in this letter or the use of the imported products, please contact Baxter's Medical Information Service at 1-800-933-0303.

To place an order, please contact Baxter's Center for Service by calling 1-888-229-0001.

To report product quality issues please contact Baxter Product Surveillance at 1-800-437-5176.

To report adverse events associated with these imported products, please call Baxter at 1-866-888-2472, or fax: 1-800-759-1801. Adverse events or quality problems experienced with the use of this product may also be reported to the FDA's MedWatch Adverse Event Reporting program either online, by regular mail or by fax:

- Complete and submit the report **Online**: www.fda.gov/medwatch/report.htm
- **Regular mail or Fax**: Download form www.fda.gov/MedWatch/getforms.htm or call 1-800-332-1088 to request a reporting form, then complete and return to the address on the pre-addressed form, or submit by fax to 1-800-FDA-0178.

Sincerely,

Dennis Vaughn

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Vice President, Marketing Operations

Baxter Healthcare Corporation

Baxter, TRAVASOL and SYNTHAMIN are trademarks of Baxter International Inc.

USMP/78/17-0018 11/17

Product Comparison Tables

Table 1: Key Differences between 10% TRAVASOL and SYNTHAMIN Injections

	US FDA approved product	Import Product
	10% TRAVASOL (Amino Acids) Injection	SYNTHAMIN 17 without Electrolytes 10% Amino Acid Intravenous Infusion
	186624 NOC 0338-0644-04 DIN CONTZOR 10% TRAVASOL (Amino Acid) Injection Pharmacy Bulk Package Not For Direct Infusion R only Section 10 of Contains Exercita, Ameno Acide Livicine 170 and any of the contains and acide a	2400 2400 2400 25 YNTHAMIN 17 without Electrolytes 100 Anino Acid Intravenous Inflation 2100 210
Description	10% TRAVASOL (Amino Acid) Injection is a sterile, nonpyrogenic hypertonic solution of essential and nonessential amino acids in a Pharmacy Bulk Package. A Pharmacy Bulk Package is a container of a sterile preparation for parenteral use that contains many single doses. The contents are intended for use in a pharmacy admixture program and are restricted to the preparation of admixtures for intravenous infusion. The VIAFLEX plastic container is fabricated from a specially formulated polyvinyl chloride (PL 146 Plastic). Exposure to temperatures above 25°C/77°F during transport and storage will lead to minor losses in moisture content. Higher temperatures lead to greater losses. It is unlikely that these minor losses will lead to clinically significant changes within the expiration period. The amount of water that can permeate from inside the container into the overwrap is insufficient to affect the solution significantly. Solutions in contact with the plastic container can leach out certain of its chemical components in very small amounts within the expiration period, e.g., di-2-ethylhexyl phthalate (DEHP), up to 5 parts per million; however, the safety of the plastic has been confirmed in tests in animals according to USP biological test for plastic containers as well as by tissue culture toxicity studies.	Synthamin 17, 10.0% Amino Acid Intravenous Infusion without Electrolytes is a sterile, nonpyrogenic hypertonic solution of essential and nonessential amino acids in a Pharmacy Bulk Package. The products are supplied in poly (vinyl chloride) Viaflex containers which are sealed in a plastic laminated overpouch, or in dual bag containers sealed in a plastic laminated overpouch. The container is sealed with a closure made from poly (vinyl chloride).
Indication for Use	10% TRAVASOL (Amino Acid) Injection is indicated as an adjunct in the offsetting of nitrogen loss or in the treatment of negative nitrogen balance in patients where: (1) the alimentary tract cannot or should not be used, (2) gastrointestinal absorption of protein is impaired, or (3) metabolic requirements for protein are substantially increased, as with extensive burns. Central Vein Administration: Central vein infusion should be considered when amino acid solutions are to be admixed with hypertonic dextrose to promote protein synthesis such as for hypercatabolic or depleted patients or those requiring long term parenteral nutrition. Peripheral Vein Administration: For patients in whom the central vein route is not indicated, amino acid solutions diluted with low dextrose concentrations may be infused by peripheral vein when supplemented with or without fat emulsion. Protein-Sparing: Dilute amino acid solutions for peripheral administration may be used in patients who exemplify no clinically significant protein malnutrition. The purpose of the solution is to replace protein losses which occur in relation to an intercurrent phenomenon which is known or suspected to be productive of a protein loss condition for a short or moderate period of time. Protein-sparing can be achieved by peripheral infusion of amino acid solutions with or without dextrose.	Synthamin 17, 10.0% Amino Acid Intravenous Infusion without Electrolytes provides a biologically available source of nitrogen (L-amino acids) for amino acids synthesis. When administered with an adequate source of energy such as concentrated carbohydrate solutions, minerals and vitamins, the mixture provides (with the exception of essential fatty acids) sufficient parenteral nutrition for patients unable to absorb adequate oral nutrition.
Dosage and Administratio n	If a patient is unable to take enteral nourishment for a prolonged period of time, institution of total parenteral nutrition (TPN) with exogenous calories should be considered. The total daily dose of 10% TRAVASOL (Amino Acid) Injection depends on the patient's metabolic requirement and clinical response. The determination of nitrogen balance and accurate daily body weights, corrected for fluid balance, are probably the best means of assessing individual nitrogen requirements. Recommended Dietary Allowances of protein range from approximately 0.75 g/kg of body weight for adults to 1.68 g/kg for infants. It must	The solution is for administration by intravenous infusion through a central venous catheter with the tip located in the central vena cava. The total daily dose of the solution depends upon the patient's metabolic requirement and clinical response. The determination of nitrogen balance and accurate daily body weights, corrected for fluid balance, are probably the best means of assessing individual nitrogen requirements. In addition to meeting nitrogen needs, the rate of administration is governed, especially during the first
	be recognized, however, that protein as well as caloric requirements in traumatized or malnourished patients may be increased substantially. Daily amino acid doses of approximately 1.0 to 1.5 g/kg of body weight for adults with adequate calories are generally sufficient to satisfy protein needs and promote positive nitrogen balance.	few days of therapy, by the patient's ability to tolerate glucose. Daily intake of amino acids, electrolytes and glucose should be increased gradually to the maximum required dose as indicated by frequent determination of urine and blood sugar levels. Recommended daily dietary allowances for protein range from 2.2g/kg of body weight for infants to 56g of protein per day for adults weighing 70kg. An associated source of non-protein energy should be

	US FDA approved product	Import Product
	10% TRAVASOL (Amino Acids) Injection	SYNTHAMIN 17 without Electrolytes 10% Amino Acid Intravenous Infusion
	For the initial treatment of trauma or protein calorie mainutrition, higher doses of protein with corresponding quantities of carbohydrate will be necessary to promote adequate patient response to therapy. The severity of the illness being treated is the primary consideration in determining proper dose level. Such higher doses, especially in infants, must be accompanied by more frequent biboratory evaluation. For protein-sparing in well-nourished patients not receiving significant additional calories, amino acid dosages of 1.0 to 1.7 g/kg/day reductive protein-sparing in well-nourished patients not receiving significant additional calories, amino acid dosages of 1.0 to 1.7 g/kg/day reductive protein-sparing in well-nourished patients not receiving significant additional calories, amino acid dosages of 1.0 to 1.7 g/kg/day reductive protein-sparing therapy should be discontinued and a regimen with full incorprotein calories substrates should be adopted. Care should be exercised to insure the maintenance of proper levels of sorum potassium. Quantities of 60 to 180 mEq of potassium per day have been used with adequate clinical effect. It may be necessary to add quantities of this electrohyte to this injection, depending primarily on the amount of carbohydrate administered to and metabolized by the patient. This injection provides a concentrated source of amino acids to meet the protein requirements of patients that are fluid restricted (e.g., renal failure). Acceptable total daily administration volumes are dependent upon the fluid balance requirements of the patient. Extreme care should be given to prevent fluctuations of blood somonality and secure electrohyte concentrations. Frequent and careful monitoring is mandatory when fluid restricted patients are receiving intravenous nutrition. Patients receiving this injection should be monitored (carefully) and their electrohyte requirements individualized. Total daily fluid requirements can be met beyond the volume of amino acid solutions by supplementing with nonc	administered in a quantity not less than 0.75 megajoules (180 kcal) per gram of nitrogen. In the initial treatment of severe trauma or in the presence of marked malnutrition, higher doses of amino acids with correspondingly larger quantities of carbohydrate will be necessary to promote adequate patient response to therapy. The degree of negative nitrogen balance being treated is the primary consideration in determining replacement therapy. Electrolyte supplementation may be indicated according to the clinical needs of the patient. Fat emulsion co-administration should be considered when prolonged parenteral nutrition is required in order to prevent essential fatty acid deficiency (EFAD). As indicated on an individual basis, vitamins and trace elements and other components (including glucose and lipids) can be added to the parenteral nutrition regimen to meet nutrient needs and prevent deficiencies and complications from developing. The osmolarity of a specific infusion solution must be taken into account when peripheral administration is considered. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration. The flow rate should be increased gradually during the first hour. The flow rate must be adjusted taking into account the dose being administered, the daily volume intake, and the duration of the infusion. Use of a final filter is recommended during administration of all parenteral nutrition solutions. Paediatric population In children, the dosage of parenteral nutrition should be individually tailored to the amino acid, electrolyte and energy requirements of the patient.
Contraindica- tions	Hypersensitivity to one or more amino acids Severe liver disease or hepatic coma Anuria	Synthamin is contraindicated in patients with: Known hypersensitivity to any of the active substances or excipients, or to components of the container Congenital abnormality of amino acid metabolism

	US FDA approved product	Import Product
	10% TRAVASOL (Amino Acids) Injection	SYNTHAMIN 17 without Electrolytes 10% Amino Acid Intravenous Infusion
arnings and recautions	WARNINGS - This injection is for compounding only, not for direct infusion. Caution should be exercised when admixing 10% TRAVASOL (Amino Acid) Injection. Studies have shown that admixtures of TRAVASOL (Amino Acid) Injection, 10% and 20% TRAVAMULSION Intravenous Fat Emulsion injection and high concentration dextrose injection (10 to 70%), from Baxter Healthcare Corporation, are stable over short periods of time. These solutions should be used promptly after admixing. Any storage should be under refrigeration and limited to a brief period of time, preferably less than 24 hours. Reference should be made to TRAVAMULSION injection and high concentration dextrose injection from Baxter Healthcare Corporation package inserts for detailed information on each component. Proper administration of this injection requires knowledge of fluid and electrolyte balance and nutrition as well as clinical expertise in recognition and treatment of the complications which may occur. Administration of amino acid solutions to a patient with hepatic insufficiency may result in serum amino acid imbalances, hyperammonemia, stupor and coma. Hyperammonemia is of special significance in infants. This reaction appears to be related to a deficiency of the urea cycle amino acids of genetic or product origin. It is essential that blood ammonia be measured frequently in infants. Conservative doses of this injection should be given to patients with known or suspected hepatic dysfunction. Should symptoms of hyperammonemia develop, administration should be discontinued and the patient's clinical status reevaluated. Administration of amino acid solutions in the presence of impaired renal function presents special issues associated with retention of electrolytes. This injection should not be administered simultaneously with blood through the same infusion set because of the possibility of pseudoagglutination. WARNING: This product contains aluminum that may be toxic. Aluminum may reach toxic levels with prolonged parenteral administration if k	WARNINGS Anaphylactic/anaphylactoid reactions and other hypersensitivity/infusion reactions have been reported with Synthamin administered as a component of parenteral nutrition. The infusion must be stopped immediately if any signs or symptoms of a reaction develop. Pulmonary vascular precipitates causing pulmonary vascular emboli and pulmonary distress have been reported in patients receiving parenteral nutrition. In some cases, fatal outcomes have occurred. Excessi addition of calcium and phosphate increases the risk of the formation of calcium phosphate precipitates. Precipitates have been reported even in the absence of phosphate salt in the solution. Precipitation dists to the in-line filter and suspected in vivo precipitate formation has also been reported. Pulmonary vascular precipitates have also been reported with Synthamin. If signs of pulmonary distress occur, the infusion should be stopped and medical evaluation initiated. In addition to inspection of the solution, the infusion set and catheter should also periodically be checked for precipitates. Infection and sepsis may occur as a result of the use of intravenous catheters to administer parenteral formulations, poor maintenance of catheters or contaminated solutions. Immunosuppression and other factors such as hyperglycaemia, malnutrition and/or their underlying disease state may predispose patients to infectious complications. Careful symptomatic and laboratory monitoring for fever/chills, leukocytosis, technical complications with the access device, and hyperglycaemia can help recognize early infections. The occurrence of septic complications can be decreased with heightened emphasis on aseptic technique in catheter placement, maintenance, as well as aseptic technique in nutritional formula preparation. Refeeding severely undernourished patients may result in the refeeding syndrome that is characterized I the shift of potassium, phosphorus, and magnesium intracellularly as the patient becomes anabolic. Thiamine deficiency and fluid retenti
	Research indicates that patients with impaired kidney function, including premature neonates, who receive parenteral levels of aluminum at greater than 4 to 5 µg/kg/day accumulate aluminum at levels associated with central nervous system and bone toxicity. Tissue loading may occur at even lower rates of administration. Administration by central venous catheter should be used only by those familiar with this technique and its complications. PRECAUTIONS It is essential to provide adequate calories concurrently if parenterally administered amino acids are to be retained by the body and utilized for protein synthesis. Concentrated dextrose solutions are an effective source of such calories. With the administration of 10% TRAVASOL (Amino Acid) Injection in combination with highly concentrated dextrose solutions, hyperglycemia, glycosuria and hyperosmolar syndrome may result. Blood and urine glucose should be monitored on a routine basis in patients receiving this therapy. Sudden cessation in administration of a concentrated dextrose solution may result in insulin reaction due to continued endogenous insulin production. Parenteral nutrition mixtures should be withdrawn slowly. Electrolytes may be added to this injection as dictated by the patient's electrolyte profile. The metabolizable acetate anion and amino acid profile in this injection were designed to minimize or prevent occurrences of hyperchloremic metabolic acidosis and hyperammonemia. However, the physician should be aware of appropriate countermeasures if they become necessary. Strongly hypertonic nutrient solutions should be administered through an indwelling intravenous catheter with the tip located in the superior vena cava. Because of its antianabolic activity, concurrent administration of tetracycline may reduce the protein sparing effects of infused amino acids. Care should be taken to avoid excess fluid accumulation, particularly in patients with renal disease, pulmonary insufficiency and heart disease. During protein-sparing therapy in	nutrient intakes while avoiding overfeeding can prevent these complications. Hypertonic infusion solutions may cause irritation of the vein when administered into a peripheral vein. PRECAUTIONS Monitoring should be appropriate to the patient's clinical situation and condition, and should include determinations of water and electrolyte balance, serum osmolarity, acid/base balance, blood glucose, liver and kidney function. Metabolic complications may occur if the nutrient intake is not adapted to the patient's requirements, or the metabolic capacity of any given dietary component is not accurately assessed. Adverse metabolic effects may arise from administration of inadequate or excessive nutrients or from inappropriate composition of an admixture for a particular patient's needs. Amino acid solutions should be used with caution in patients with preexisting liver disease or liver insufficiency. Liver function parameters should be closely monitored in these patients, and they should monitored for possible symptoms of hyperammonemia (see below). Patients on parenteral nutrition may experience hepatic complications (including cholestasis, hepatic steatosis, fibrosis and cirrhosis, possibly leading to hepatic failure, as well as cholecystitis and cholelithiasis) and should be monitored accordingly. The etiology of these disorders is thought to be multifactorial and may differ between patients. Patients developing abnormal laboratory parameters or other signs of hepatobiliary disorders should be assessed by a clinician knowledgeable in liver diseases i order to identify possible causative and contributory factors, and possible therapeutic and prophylactic interventions. Increase in blood ammonia levels and hyperammonemia may occur in patients receiving amino acid solutions. In some patients this may indicate the presence of a congenital disorder of amino acid metabolism or hepatic insufficiency. Blood ammonia should be measured frequently in newborns and infants to detect hyperammonemia, which may indicate the p

Use with caution in patients with renal insufficiency. Fluid and electrolyte status should be closely

Severe water and electrolyte disorders, severe fluid overload states, and severe metabolic disorders

Mixtures containing amino acids may precipitate acute folate deficiency and folic acid should be administered daily. It is essential to provide an adequate source of non-protein energy concurrently if

monitored in these patients.

should be corrected before starting the infusion.

	US FDA approved product	Import Product			
	10% TRAVASOL (Amino Acids) Injection	SYNTHAMIN 17 without Electrolytes 10% Amino Acid Intravenous Infusion parenterally administered amino acids are to be retained by the body and utilised for protein synthesis. Concentrated glucose solutions are an effective source of such energy. The infusion of Synthamin with highly concentrated glucose solutions may result in hyperglycaemia, glycosuria and hyperosmolar syndrome. Blood and urine glucose should be monitored on a routine basis in			
Usage in Specific Population	Pregnancy: Teratogenic Effects Pregnancy Category C - Animal reproduction studies have not been conducted with 10% TRAVASOL (Amino Acid) Injection. It is also not known whether 10% TRAVASOL (Amino Acid) Injection can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. 10% TRAVASOL (Amino Acid) Injection should be given to a pregnant woman only if clearly needed. Nursing Mothers: Caution should be exercised when 10% TRAVASOL (Amino Acid) Injection is administered to a nursing woman. Pediatric Us e: Safety and effectiveness of 10% TRAVASOL (Amino Acid) Injection in pediatric patients have not been established by adequate and well-controlled studies. However, the use of amino acid injections in pediatric patients as an adjunct in the offsetting of nitrogen loss or in the treatment of negative nitrogen balance is referenced in the medical literature. See Dosage and Administration	Paediatric use There have been no studies performed by Baxter Healthcare Corporation in the paediatric population above regarding monitoring for hyperammonemia in paediatric patients. Geriatric use In general, dose selection for an elderly patient should be cautious, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or drug therapy.		the paediatric population. See	
Adverse Events	Infusion of any hypertonic solution can result in local inflammatory reactions. Policies and procedures should be established for the recognition and management of such reactions.	The following adverse reactions have been reported in the post-marketing experience. Frequency is defined as very common (\geq 1/10); common (\geq 1/100 to < 1/10); uncommon (\geq 1/100): rare (\geq 1/10,000 to < 1/1000); very rare (< 1/10,000); and not known (cannot be estimat the available data). Other adverse reactions reported with parenteral amino acid products include the available data.			
		Tabulated list of adverse rea System Organ Class	ctions Preferred MedDRA Term	Frequency	
		Immune system disorders	Anaphylactic/anaphylactoid reactions*	Not known Not known	
		Vascular disorders	Hypersensitivity** Pulmonary vascular precipitate	Not known	
Overdosage	See Contradictions	In the event of inappropriate administration (overdose, and/or infusion rate higher than recommended), hypervolemia, electrolyte disturbances, acidosis and/or azotemia may occur. In such situations, the infusion must be stopped immediately. If medically appropriate, further intervention may be indicated to prevent clinical complications. There is no specific antidote for overdose. Emergency procedures should include appropriate corrective measures.		r. In such situations, the ervention may be indicated to	
Storage Conditions	Exposure of pharmaceutical products to heat should be minimized. Avoid excessive heat. Protect from freezing. It is recommended the product be stored at room temperature (25°C/77°F). Do not remove container from overpouch until ready to use. Do not use if overpouch has been previously opened or damaged.	Storage temperature should not exceed 25°C. Product supplied in a clear overpouch should be protected from light during storage.		storage.	
Directions for use	Directions for us e of VIAFLEX plastic Pharmacy Bulk Package container To Open Tear overpouch down side at slit and remove solution container. Visually inspect the container. If the outlet port protector is damaged, detached, or not present, discard container as solution path sterility may be impaired. Some opacity of the plastic due to moisture absorption during the sterilization process may be observed. This is normal and does not affect the solution quality or safety. The opacity will diminish gradually. Check for minute leaks by squeezing inner bag firmly. If leaks are found, discard solution as sterility may be impaired. For compounding only, not for direct infusion Preparation for Admixing 1. The Pharmacy Bulk Package is to be used only in a suitable work area such as a laminar flow hood (or an equivalent clean air compounding area). 2. Suspend container from eyelet support. 3. Remove plastic protector from outlet port at bottom of container. 4. Attach solution transfer set. Refer to complete directions accompanying set. Note: The closure shall be penetrated only one time with a suitable sterile transfer device or dispensing set which allows measured dispensing of the contents. 5. VIAFLEX containers should not be written on directly since ink migration has not been investigated. Affix accompanying label for date and time of entry. 6. Once container closure has been penetrated, withdrawal of contents should be completed without delay. After initial entry, maintain contents at room temperature (25°C/77°F) and dispense within 4 hours.	2 litre and 3 litre containers are bulk source containers for pharmacy use and should not be used for direct intravenous infusion. Do not administer unless the solution is clear and colourless or slightly yellow, and the container undamaged. To open Do not remove from overpouch until ready to use. Remove the protective overpouch. Check bag for leaks. If additions to the bag are made Aseptic conditions must be observed. Ensure stability and compatibility of additives. Prepare the injection site of the bag. Puncture the injection site and inject the additives using an injection needle or reconstitution device. Mix content of the bag and the additives thoroughly. Inspect final solution for discoloration and particulate matter. Check bag for leaks. Ensure proper storage requirements of additives are followed. Administration of the infusion Do not be administered simultaneously with, before or after an administration of blood through the sami infusion equipment, because of the possibility of pseudo-agglutination. Do not connect bags in series in order to avoid air embolism due to possible residual air contained in the primary bag. For single use only Discard all equipment after use. Discard any unused portion. Do not reconnect partially used bags.		overpouch. Check bag for additives. Prepare the susing an injection needle or a . Inspect final solution for torage requirements of . on of blood through the same not connect bags in series in mary bag. For single use only.	
How Supplied	10% TRAVASOL (Amino Acid) Injection is available in VIAFLEX plastic Pharmacy Bulk Package containers. Exposure of pharmaceutical products to heat should be minimized. Avoid excessive heat. Protect from freezing. It is recommended the product be stored at room temperature (25°C/77°F). Do not remove container from overpouch until ready to use.	Storage temperature should no Product supplied in a clear over	t exceed 25°C. pouch should be protected from light during	storage.	
	Do not use if overpouch has been previously opened or damaged.				

Table 2. Comparison of TRAVASOL and SYNTHAMIN Ingredients

US FDA approved product Import Product SYNTHAMIN 17 without Electrolytes 10% TRAVASOL (Amino Acids) Injection 10% Amino Acid Intravenous Infusion

	Ingredients - 10% TRAVASOL	mg/100 mL
	Leucine	730
	Isoleucine	600
sp	Valine	580
Essential Amino Acids	Lysine (added as hydrochloride)	580
I Ami	phenylalanine	560
sentia	Histidine	480
Es	Threonine	420
	Methionine	400
	Tryptophan	180
sp	Alanine	2.07 g/100 mL
io Aci	Arginine	1.15 g/100 mL
Nonessential Amino Acids	Glycine	1.03 g/100 mL
entia	Proline	680
oness	Serine	500
2	Tyrosine	40
	Acetate*	88 mEq/L
ıer	Chloride*	40 mEq/L
Other	рН	6.0 (5.0 to 7.0)
	Osmolarity (calculated)	998 mOsm/L

	Ingredients – SYNTHAMIN 17 Amino Acid Intravenous Infusion	g/L	mg/100 mL
	L- Leucine	7.30	730
	L-Isoleucine	6.00	600
	L-Valine	5.80	580
	L-Lysine (as hydrochloride salt)	5.80	580
	L-Phenylalanine	5.60	560
	L-Histidine	4.80	480
Active Ingredients	L-Threonine	4.20	420
Ingre	L-Methionine	4.00	400
ctive	L-Tryptophan	1.80	180
٩	L-Alanine	20.70	2.07 g/100 mL
	L-Arginine	11.50	1.15 g/100 mL
	Amino acetic Acid (Glycine)	10.30	1.03 g/100 mL
	L-Proline	6.80	680
	L-Serine	5.00	500
	L-Tyrosine	400 mg	40
	Acetate*	82 mmol/L	
ıer	Chloride*	40mmol/L	
Other	рН	6.0	
	Osmolarity (calculated)	1000 mOsm/L	

^{*} For monovalent ions, the numeric value of the millimole and milliequivalent are identical.