CLINIMIX
(amino acids in dextrose) Injections

CLINIMIX E
(amino acids with electrolytes in dextrose with calcium) Injections

CLINIMIX and CLINIMIX E Injections

Nutrient Profile

INDICATIONS

CLINIMIX (amino acids in dextrose) Injections and CLINIMIX E (amino acids with electrolytes in dextrose with calcium) Injections are indicated as a source of calories and protein (and electrolytes for CLINIMIX E) for patients requiring parenteral nutrition when oral or enteral nutrition is not possible, insufficient, or contraindicated. CLINIMIX and CLINIMIX E may be used to treat negative nitrogen balance in patients.

Please see Indications and Important Risk Information on inside page

Please see accompanying Package Inserts for full Prescribing Information

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CLINIMIX (amino acids in dextrose) and **CLINIMIX E** amino acids with electrolytes in dextrose with calcium) Injections Nutritional Profile

Nutrients per 1-Liter Container

1 liter	PRODUCT	CLINIMIX Inj. 2B7726 4.25/5	CLINIMIX Inj. 2B7727 4.25/10	CLINIMIX Inj. 2B7730 5/15	CLINIMIX Inj. 2B7731 5/20	CLINIMIX E Inj. 2B7735 2.75/5	CLINIMIX E Inj. 2B7737 4.25/5	CLINIMIX E Inj. 2B7738 4.25/10	CLINIMIX E Inj. 2B7740 5/15	CLINIMIX E Inj. 2B7741 5/20
	Total Volume (without lipids)	1-Liter	1-Liter	1-Liter	1-Liter	1-Liter	1-Liter	1-Liter	1-Liter	1-Liter
Final concentrations AFTER mixing.	Amino Acid Concentration	4.25%	4.25%	5%	5%	2.75%	4.25%	4.25%	5%	5%
	Dextrose Concentration	5%	10%	15%	20%	5%	5%	10%	15%	20%
	gm Dextrose/L	50	100	150	200	50	50	100	150	200
	gm Amino Acids/L	42.5	42.5	50	50	27.5	42.5	42.5	50	50
	gm Nitrogen/L	7.02	7.02	8.26	8.26	4.54	7.02	7.02	8.26	8.26
	Sodium (mEq/L)	–	–	–	–	35	35	35	35	35
	Potassium (mEq/L)	–	–	–	–	30	30	30	30	30
	Magnesium (mEq/L)	–	–	–	–	5	5	5	5	5
	Calcium (mEq/L)	–	–	–	–	4.5	4.5	4.5	4.5	4.5
	Acetate (mEq/L)	37	37	42	42	51	70	70	80	80
	Chloride (mEq/L)	17	17	20	20	39	39	39	39	39
	Phosphate (as $HPO_4^{=}$) (mmol/L)	–	–	–	–	15	15	15	15	15
	pH*	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Osmolarity (mOsmol/L)	675	930	1255	1505	665	815	1070	1395	1650
	Kcal from Amino Acids/L	170	170	200	200	110	170	170	200	200
	Kcal from Dextrose/L	170	340	510	680	170	170	340	510	680
	Total Kcal/L	340	510	710	880	280	340	510	710	880
	Total Kcal with IV Fat Emulsion added**									
+	20% 500 mL (1000 Kcal)	1340	1510	1710	1880	1280	1340	1510	1710	1880
+	20% 250 mL (500 Kcal)	840	1010	1210	1380	780	840	1010	1210	1380
+	10% 500 mL (550 Kcal)	890	1060	1260	1430	830	890	1060	1260	1430
+	10% 250 mL (275 Kcal)	615	785	985	1155	555	615	785	985	1155

* pH Range = 4.5-7.0 ** Data on file, Baxter Healthcare Corporation.

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CLINIMIX [amino acids in dextrose] and **CLINIMIX E** amino acids with electrolytes in dextrose with calcium] Injections Nutritional Profile

Nutrients per 2-Liter Container

2 liter	PRODUCT	CLINIMIX Inj. 2B7704 4.25/5	CLINIMIX Inj. 2B7705 4.25/10	CLINIMIX Inj. 2B7709 5/15	CLINIMIX Inj. 2B7710 5/20	CLINIMIX E Inj. 2B7716 4.25/5	CLINIMIX E Inj. 2B7717 4.25/10	CLINIMIX E Inj. 2B7721 5/15	CLINIMIX E Inj. 2B7722 5/20
	Total Volume (without lipids)	2-Liter	2-Liter	2-Liter	2-Liter	2-Liter	2-Liter	2-Liter	2-Liter
Final concentrations AFTER mixing.	Amino Acid Concentration	4.25%	4.25%	5%	5%	4.25%	4.25%	5%	5%
	Dextrose Concentration	5%	10%	15%	20%	5%	10%	15%	20%
	gm Dextrose/2 L	100	200	300	400	100	200	300	400
	gm Amino Acids/2 L	85	85	100	100	85	85	100	100
	gm Nitrogen/2 L	14.04	14.04	16.52	16.52	14.04	14.04	16.52	16.52
	Sodium (mEq/2 L)	--	--	--	--	70	70	70	70
	Potassium (mEq/2 L)	--	--	--	--	60	60	60	60
	Magnesium (mEq/2 L)	--	--	--	--	10	10	10	10
	Calcium (mEq/2 L)	--	--	--	--	9	9	9	9
	Acetate (mEq/2 L)	74	74	84	84	140	140	160	160
	Chloride (mEq/2 L)	34	34	40	40	78	78	78	78
	Phosphate (as $HPO_4^{=}$) (mmol/2 L)	--	--	--	--	30	30	30	30
	pH*	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Osmolarity (mOsmol/L)	675	930	1255	1505	815	1070	1395	1650
	Kcal from Amino Acids/2 L	340	340	400	400	340	340	400	400
	Kcal from Dextrose/2 L	340	680	1020	1360	340	680	1020	1360
	Total Kcal/2 L	680	1020	1420	1760	680	1020	1420	1760
	Total Kcal with IV Fat Emulsion added**								
+	20% 500 mL (1000 Kcal)	1680	2020	2420	2760	1680	2020	2420	2760
+	20% 250 mL (500 Kcal)	1180	1520	1920	2260	1180	1520	1920	2260
+	10% 500 mL (550 Kcal)	1230	1570	1970	2310	1230	1570	1970	2310
+	10% 250 mL (275 Kcal)	955	1295	1695	2035	955	1295	1695	2035

* pH Range = 4.5-7.0 ** Data on file, Baxter Healthcare Corporation.

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To mix solutions

1. Grasp the container firmly on each side of the top of the bag (hanger end).
2. Roll the bag to open seal between chambers as shown.
3. Mix solutions thoroughly.
4. Check for leaks.

With Vertical Peel Seal CLARITY Dual Chamber Container in 1 L and 2 L sizes

SELECTED IMPORTANT RISK INFORMATION

CLINIMIX and CLINIMIX E Injections are contraindicated in patients with known hypersensitivity to one or more amino acids or dextrose; in patients with inborn errors of amino acid metabolism due to risk of severe metabolic and neurologic complications; and in patients with pulmonary edema or acidosis due to low cardiac output. In addition, CLINIMIX E is contraindicated in neonates (less than 28 days of age) receiving concomitant treatment with ceftriaxone, even if separate infusion lines are used, due to the risk of fatal ceftriaxone calcium salt precipitation in the neonate's bloodstream.

INDICATIONS

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IMPORTANT RISK INFORMATION

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- Pulmonary vascular precipitates causing pulmonary vascular emboli and pulmonary distress have been reported in patients receiving parenteral nutrition. Excessive addition of calcium and phosphate increases the risk of the formation of calcium phosphate precipitates. The solution should be inspected for precipitates before admixing, after admixing, and again before administration. If signs of pulmonary distress occur, stop the infusion and initiate a medical evaluation.
- Precipitation of ceftriaxone-calcium can occur when ceftriaxone is mixed with CLINIMIX E, in the same intravenous administration line. Do not administer ceftriaxone simultaneously with CLINIMIX E via a Y-site.
- Stop infusion immediately and treat patient accordingly if signs or symptoms of a hypersensitivity reaction develop.
- Monitor for signs and symptoms of early infections.
- Refeeding severely undernourished patients may result in refeeding syndrome. Thiamine deficiency and fluid retention may also develop. Monitor severely undernourished patients and slowly increase nutrient intakes.
- CLINIMIX and CLINIMIX E solutions containing more than 5% dextrose have an osmolarity of ≥ 900 mOsm/L and must be infused through a central catheter.
- CLINIMIX and CLINIMIX E contain no more than 25 mcg/L of aluminum which may reach toxic levels with prolonged administration in patients with renal impairment. Preterm infants are at greater risk because their kidneys are immature, and they require large amounts of calcium and phosphate solutions which contain aluminum. Patients with renal impairment, including preterm infants, who receive parenteral levels of aluminum at greater than 4 to 5 mcg/kg/day, accumulate aluminum at levels associated with central nervous system and bone toxicity. Tissue loading may occur at even lower rates of administration.
- Parenteral Nutrition Associated Liver Disease (PNALD) has been reported in patients who receive parenteral nutrition for extended periods of time, especially preterm infants. If CLINIMIX and CLINIMIX E treated patients develop liver test abnormalities consider discontinuation or dosage reduction.
- Use CLINIMIX and CLINIMIX E with caution in patients with cardiac insufficiency or renal impairment due to increased risk of electrolyte and fluid volume imbalance.
- Monitor renal and liver function parameters, ammonia levels, fluid and electrolyte status, serum osmolarity, blood glucose, blood count and coagulation parameters throughout treatment. In situations of severely elevated electrolyte levels, stop CLINIMIX and CLINIMIX E until levels have been corrected.
- Adverse reactions include diuresis, extravasation, glycosuria, hyperglycemia, and hyperosmolar coma.

Please see accompanying Package Inserts for full Prescribing Information

For more information,
contact Medical Information at
1-800-422-2751 or visit
www.baxtermedicationdeliveryproducts.com

CLINIMIX
(amino acids in dextrose) Injections

CLINIMIX E
(amino acids with electrolytes in dextrose with calcium) Injections

Please see Indications and Important Risk Information on inside page
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www.baxter.com

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