ADDITIVE FORMULA 3- dextrose monohydrate, trisodium citrate dihydrate, sodium chloride, sodium phosphate, monobasic, monohydrate, citric acid monohydrate, and adenine solution Terumo BCT, Ltd

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use ADDITIVE SOLUTION FORMULA 3 (AS-3) safely and effectively. See full prescribing information for ADDITIVE SOLUTION FORMULA 3 (AS-3).

ADDITIVE SOLUTION FORMULA 3 (AS-3)

Sterile Fluid Polyolefin Bag

Initial U.S. Approval: 2002

INDICATIONS AND USAGE
Use only with Trima Accel red blood cell (RBC) apheresis collections. (1)
DOSAGE AND ADMINISTRATION
• AS-3 is added to tubing sets after apheresis collections, after the donor has been disconnected. (2)
• AS-3 may only be used with the Trima Accel apheresis device. For instructions on the use of the solution see the device operator's manual. (2.1)
• Follow the directions for connecting the AS-3 bag to the tubing set of a blood collection system. (2.2)
DOSAGE FORMS AND STRENGTHS
• 100 mL, 200 mL, or 350 mL sterile fluid in a Polyole fin bag. (3)
CONTRAINDICATIONS
• DO NOT INFUSE AS-3 DIRECTLY TO THE DONOR. (4)
WARNINGS AND PRECAUTIONS
• Verify that the AS-3 bag has been securely attached to the system tubing set. Use aseptic technique throughout all procedures to ensure product quality. (5)
• Do not reuse. Discard unused or partially used solution bags.
Citrate reactions or toxicity may occur with the infusion of blood containing citrate. The recipient of the blood containing citrate should be monitored for the signs and symptoms of citrate toxicity. (6)
To report SUSPECTED ADVERSE REACTIONS, contact Terumo BCT, Inc. at 1-877-339-4228 or FDA at 1-800- FDA-1088 or www.fda.gov/medwatch.

Revised: 7/2018

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Use only with Trima Accel red blood cell (RBC) apheresis collections. *[See Dosage and Administration (2).]*

2 DOSAGE AND ADMINISTRATION

2.1 General Dosing Information

ADDITIVE SOLUTION FORMULA 3 (AS-3) is connected to the tubing set used for an apheresis RBC collection procedure after the collection has been completed.

- For automated RBC procedures, the recommended dose is determined by the apheresis device and metered into the tubing set by the apheresis device.
- To add the product manually, refer to the apheresis system operator's manual to determine the recommended dose.

For instructions on the use of the solution with the apheresis device and tubing set, see the device operator's manual.

2.2 Adminis tration

Directions for connecting the **ADDITIVE SOLUTION FORMULA 3** (AS-3) *bag to the apheresis device.*

Automated RBC additive solution procedures:

Connect ADDITIVE SOLUTION FORMULA 3 (AS-3) after the collection is over and the donor is disconnected. For automated addition of the product, the system will prompt you to connect the bag.

- 1. Remove the overwrap by pulling down at notch, and remove the AS-3 bag.
- 2. Before use, perform the following checks:
 - Ensure that the solution is the ADDITIVE SOLUTION FORMULA 3 (AS-3) and is within the expiration date.
 - Inspect the bag in good light. Do not use if the container is damaged, leaking or if there is any visible sign of deterioration. Check for leaks by gently squeezing the bag. If leaks are found, discard the bag.
 - Inspect the solution in good light. Use only if solution is clear and free of particulate matter. Bags showing cloudiness, haze, or particulate matter should not be used.
 - Protect from sharp objects.
- 3. Remove the protective cap from the port on the bag.
- 4. Connect the bag to the apheresis device tubing set using aseptic technique and hang the solution.
- 5. Break the frangible connector. When you break frangible connectors, bend them in both directions to ensure that you break them completely. Failure to do so may result in restricted flow.
- 6. Proceed according to the apheresis device operator's manual.

Manual RBC additive solution procedures:

Connect ADDITIVE SOLUTION FORMULA 3 (AS-3) after the collection is over and the donor is disconnected.

- 1. Seal the RBC product lines as close to the cassette as possible.
- 2. Remove the overwrap by pulling down at notch, and remove the ADDITIVE SOLUTION FORMULA 3 bag.
- 3. Before use, perform the following checks:
 - Ensure that the solution is the ADDITIVE SOLUTION FORMULA 3 (AS-3) and is within the expiration date.
 - Inspect the bag in good light. Do not use if the container is damaged, leaking or if there is any visible sign of deterioration. Check for leaks by gently squeezing the bag. If leaks are found, discard the bag.
 - Inspect the solution in good light. Use only if solution is clear and free of particulate matter. Bags showing cloudiness, haze, or particulate matter should not be used.
 - Protect from sharp objects.
- 4. Remove the protective cap from the port on the bag.
- 5. Connect the bag to the apheresis device tubing set using aseptic technique and hang the solution.
- 6. Break the frangible connector. When you break frangible connectors, bend them in both directions to ensure that you break them completely. Failure to do so may result in restricted flow.
- 7. Proceed according to the apheresis device operator's manual.

3 DOSAGE FORMS AND STRENGTHS

100 mL, 200 mL and 350 mL ADDITIVE SOLUTION FORMULA 3 (AS-3) products are sterile solutions in a Polyolefin bag. Each 100 mL contains: Dextrose Monohydrate USP 1.10 g; Trisodium Citrate Dihydrate USP 0.59 g; Sodium Chloride USP 0.41 g; Monobasic Sodium Phosphate Monohydrate USP 0.28 g; Citric Acid Monohydrate USP 0.042 g; Adenine USP 0.03 g; and Water for Injection USP.

4 CONTRAINDICATIONS

DO NOT INFUSE ADDITIVE SOLUTION FORMULA 3 (AS-3) DIRECTLY TO THE DONOR.

5 WARNINGS AND PRECAUTIONS

- Verify that the AS-3 bag has been securely attached to the system tubing set. Use aseptic technique throughout all procedures to ensure product quality.
- Do not reuse. Discard unused or partially used solution bags.

6 ADVERSE REACTIONS

Citrate reactions or toxicity may occur with the infusion of blood products to patients. The recipient of the blood containing citrate should be monitored for the signs and symptoms of citrate toxicity. The signs and symptoms of citrate toxicity begin with paresthesia, a "tingling" sensation around the mouth or in the extremities, followed by severe reactions that are characterized by hypotension and possible cardiac arrhythmia. Citrate toxicity may occur more frequently in patients who are hypothermic, have impaired liver or renal function, or have low calcium levels because of an underlying disease.

8 USE IN SPECIFIC POPULATIONS

ADDITIVE SOLUTION FORMULA 3 (AS-3) has not been studied in controlled clinical trials with specific populations.

11 DESCRIPTION

ADDITIVE SOLUTION FORMULA 3 (AS-3) is designed to be added to packed RBC collected in apheresis procedures, and acts to preserve and extend the shelf life of packed RBC products for later transfusion to patients. The solution is intended to be metered by an apheresis device during apheresis procedures or added manually after a collection.

The solution is sterile and non-pyrogenic, and it contains no bacteriostatic or antimicrobial agents.

The formulas of the active ingredients are provided in Table 1.

Ingredients	Molecular Formula	Molecular Weight
Dextrose Monohydrate USP	$C_6H_{12}O_6 \cdot H_2O$	198.17
Trisodium Citrate Dihydrate USP	C ₆ H ₉ Na ₃ O ₉	294.10
Sodium Chloride USP	NaCl	58.44
Monobasic Sodium Phosphate Monohydrate USP	$NaH_2PO_4 \cdot H_2O$	137.99
Citric Acid Monohydrate USP	$C_6H_80_7 \cdot H_2O$	210.14
Adenine USP	C ₅ H ₅ N ₅	135.13
Water for Injection USP	H ₂ O	18.00

Table 1: Active Ingredients

Each 100 mL of ADDITIVE SOLUTION FORMULA 3 (AS-3) contains: Dextrose Monohydrate USP 1.10 g; Trisodium Citrate Dihydrate USP 0.59 g; Sodium Chloride USP 0.41 g; Monobasic Sodium Phosphate Monohydrate USP 0.28 g; Citric Acid Monohydrate USP 0.042 g; Adenine USP 0.03 g; and Water for Injection USP.

ADDITIVE SOLUTION FORMULA 3 is available in three volumes: 100 mL, 200 mL and 350 mL.

The 100 mL bags are individually wrapped with a clear plastic film. Six individually wrapped bags are then vacuum-sealed in a foil pouch, which serves as a vapor barrier to prevent water loss during storage. After you remove the individual solution bags from the foil pouch, you can either leave them in the clear plastic film or remove and discard it. Once the foil pouch has been opened, use all six of the solution bags within 2 weeks.

The 200 mL and 350 mL bags are individually wrapped with a clear plastic film. These larger volumes do not require the additional vapor barrier. Once the clear plastic film has been removed, use the solution within 2 weeks.

The Polyolefin bag is not made with natural rubber latex.

The bag is made from a multilayered film. It contains materials that have been tested to demonstrate the suitability of the container for storing pharmaceutical solutions. The bag is nontoxic and biologically inert. The bag-solution unit is a closed system and is not dependent upon entry of external air during administration.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

ADDITIVE SOLUTION FORMULA 3 acts to preserve and extend the shelf life of packed RBC products for later transfusion to patients. The following ingredients are key components of the solution:

- Adenine to support adenosine triphosphate (ATP) levels
- Citrate for membrane protection, anticoagulation and pH regulation

- Sodium (Sodium Chloride and Sodium Citrate) and dextrose for isotonicity
- Dextrose for RBC nutrition

This solution has no pharmacological effect.

14 CLINICAL STUDIES

The *in vivo* and *in vitro* quality of RBCs stored for 42 days in ADDITIVE SOLUTION FORMULA 3 (AS-3) storage solution has been assessed in three clinical studies.

In Vivo Recovery of Autologous Radiolabeled RBC

A single-arm, multicenter, *in vivo* study was conducted to assess the recovery of radiolabeled RBCs 24 hours post infusion. Acceptability of *in vivo* recovery was determined using established FDA-CBER acceptance criteria. Double collection RBCs (dRBC) were collected using the Trima Accel system and stored in ADDITIVE SOLUTION FORMULA 3 (AS-3) solution for 42 days, then radiolabeled with ⁵¹Chromium, and transfused back to the original subject. Table 2 summarizes the *in vivo* recovery data. Of the 27 units transfused, 26 had > 75% RBC recovery.

Outcome Measure	Study Site (N)	Average (SD)	Min, Max
Overall Day 42 infused, 24-hour RBC	Site 1 (12)	79.3 (5.6)	67.5, 86.5
Radiolabel Recovery (%)	Site 2 (15)	87.1 (5.5)	79.0, 98.1

Table 2: In vivo Radiolabeled RBC Recovery

Abbreviations: Max= Maximum, Min= Minimum, N= Number of Units Transfused, RBC= Red Blood Cell, SD= Standard Deviation

FDA-CBER Criteria for Acceptable Recovery: Radiolabeled RBC recoveries should average at least 75%, with a standard deviation of at most 9%. In addition, the 95% one-sided lower confidence limit for the population proportion of successes should be > 70%, with success being defined as an individual red blood cell *in vivo* recovery of at least 75%. No more than 3 out of 24 data points may have less than 75% radiolabeled red cell recovery at 24 hours post infusion.

The primary outcome was met for RBCs collected on the Trima Accel system and stored in ADDITIVE SOLUTION FORMULA 3 (AS-3) storage solution.

In Vitro RBC Quality Studies

The *in vitro* quality of RBCs collected in single RBC collection (sRBC) and dRBC procedures using the Trima Accel system was assessed after 42 days of storage in ADDITIVE SOLUTION FORMULA 3 (AS-3) solution in a multicenter, paired study. *In vitro* quality was determined using established FDA-CBER acceptance criteria. The quality of RBCs stored in ADDITIVE SOLUTION FORMULA 3 (AS-3) solution (test) was compared to RBCs stored in plasma (control). Table summarizes the *in vitro* RBC quality data for collection on the Trima Accel system and storage in ADDITIVE SOLUTION FORMULA 3 (AS-3) solution.

Table 3: In Vitro Quality Measures for RBCs Collected using the Trima Accel Systemand Stored in ADDITIVE SOLUTION FORMULA 3 (AS-3)

Outcome Measure	Site (N)	Average (SD)	Min, Max
Day 42 Hemolysis for Single RBC	Site 1 (32)	0.16 (0.06)	0.06, 0.33
	Site 2 (18)	0.34 (0.18)	0.12, 0.70
	Site 3 (18)	0.26 (0.11)	0.09, 0.47
	Site 1 (25)	0.15 (0.05)	0.06, 0.29
Day 42 Hemolysis for Double RBC	Sita 7 (71)	0.20 (0.10)	

Collection [*] (%)	Sile 2 (24)	0.29 (0.19)	0.10, 0.35
	Site 3 (21)	0.26 (0.12)	0.13, 0.61
Change in all from Der 0 to Der 12	Site 1 (31)	0.03 (0.02)	0.00, 0.08
for Single PRC Collection [†]	Site 2 (18)	0.03 (0.03)	0.00, 0.11
	Site 3 (16)	0.02 (0.02)	0.00, 0.07
Change in all from Der 0 to Der 12	Site 1 (23)	0.02 (0.02)	0.00, 0.05
for Double PBC Collection [†]	Site 2 (23)	0.02 (0.03)	0.00, 0.15
	Site 3 (19)	0.02 (0.02)	0.00, 0.08
Ratio of ATP Retention for Single Collection RBC Units (test/control) [‡]	All sites (65)	1.02 (0.18)	0.46, 1.47
Ratio of ATP Retention for Double Collection RBC Units (test/control) [‡]	All sites (65)	1.07 (0.19)	0.55, 1.51
Ratio of the Normalized Leaked			
Potassium for Single Collection RBC Units (test/control) [§]	All sites (65)	0.98 (0.07)	0.76, 1.13
Ratio of the Normalized Leaked Potassium for Double Collection RBC Units (test/control) [§]	All Sites (64)	1.00 (0.08)	0.85, 1.24

Abbreviations: HCT = hematocrit, HgB = hemoglobin, Max = Maximum, Min = Minimum, N

= Number of Units, RBC = Red Blood Cell, SD = Standard Deviation

* Percent hemolysis was calculated from plasma free hemoglobin using the equation:
 %Hemolysis = (100 - RBC Product HCT)* Plasma Hgb / (RBC Product Hgb).

- [†] The difference in pH between Test and Control on Day 42 was calculated as: $\Delta pH = |pHTest - pHControl| \le 0.5$
- where the difference was expected to be less than or equal to 0.5 pH units.
- [‡] ATP retention was determined for test and control units across all sites and calculated as ATP Level on Day 42 / ATP Level on Day 0.
- § Normalized potassium was calculated by determining the total number of millimoles of potassium leaked from the RBCs into the supernatant volume and dividing this by the total hemoglobin in the stored product.

Normalized Leaked Potassium = Volume*(1-Hct/100)*(d42[K+] – d0[K+]) / Total Hemoglobin

FDA-CBER Criteria for Acceptable Day 42 Hemolysis: Zero failures (hemolysis \geq 1% after 42-day storage) out of 60 test units that were not excluded from analysis by the Extreme Studentized Deviate test with α =0.05, which satisfies the binomial distribution testing requirement that, with 95% probability and a one-sided 95% lower confidence limit, the post-storage hemolysis was less than 1% per unit.

There were 0/68 sRBC test units and 0/70 dRBC test units with Day 42 hemolysis \geq 1%. No donors were excluded as hemolysis was < 1% for all test units. Therefore, the primary objective was met for RBCs stored in ADDITIVE SOLUTION FORMULA 3 (AS-3).

The *in vitro* quality of sRBC and dRBC units collected using the Trima Accel system was assessed after 42 days of storage in AS-3 solution in a multicenter study. The quality of RBCs was compared between sRBC and dRBC units, and between units A and B of the dRBC collection. Table summarizes the *in vitro* RBC quality data for collection using the Trima Accel system and storage in ADDITIVE SOLUTION FORMULA 3 (AS-3).

Table 4: In Vitro Quality Measures for RBCs Collected using the Trima Accel Systemand Stored in ADDITIVE SOLUTION FORMULA 3 (AS-3)

Outcome Measure [*]		RBC Unit				P Value [†]	
	Site	dRBC A	dRBC B	sRBC	dRBC A v dRBC B	sRBC v dRBC	

Hematocrit (%),	Site 1	54.4 (3.7)	53.9 (3.6)	55.8 (4.4)	0.132	0.253
mean (SD)	Site 2	56.0 (3.9)	53.3 (11.6)	58.4 (3.6)	0.398	0.149
pII maan (SD)	Site 1	6.4 (0.04)	6.4 (0.05)	6.5 (0.08)	0.760	0.643
pH, mean (SD)	Site 2	6.4 (0.1)	6.4 (0.1)	6.4 (0.1)	0.175	0.217
	Site 1	140 (8)	137 (8)	139 (12)	0.172	0.525
pCO ₂ , mean (SD)	Site 2	130.5 (11.7)	130.4 (12.4)	125.6 (11.1)	1.00	0.316
$n(\mathbf{D})$	Site 1	46 (7)	47 (7)	46 (7)	0.104	0.825
pO_2 , mean (SD)	Site 2	52.0 (10.6)	51.4 (12.5)	46.2 (3.4)	0.878	0.157
ATP (µmols/g	Site 1	2.6 (0.6)	2.6 (0.6)	2.9 (0.5)	0.759	0.306
HB), mean (SD)	Site 2	3.0 (0.5)	3.0 (0.6)	2.6 (0.5)	0.845	0.110
K (mEq/L), mean	Site 1	46.5 (7.9)	47.5 (8.2)	49.3 (10.1)	0.396	0.620
(3D)	Site 2	40.5 (5.8)	41.1 (5.9)	44.7 (5.7)	0.575	0.128
No (mE q/L) moon	Site 1	122 (7)	123 (6)	126 (17)	0.016	0.609
(SD)	Site 2	105.6 (5.4)	104.2 (5.5)	100.0 (5.5)	0.004	0.069
Total Hemoglobin	Site 1	60.5 (5.8)	60.0 (5.3)	61.0 (4.7)	0.546	0.627
(g/dL)	Site 2	58.5 (5.5)	59.6 (5.8)	60.3 (5.0)	0.264	0.747
Plasma Hemoglobin	Site 1	149.9 (151.6)	141.2 (145.3)	152.7 (86.3)	0.034	0.815
(mg/dL), mean (SD)	Site 2	139.0 (61.0)	126.7 (80.4)	135.5 (82.1)	0.241	0.790
Hemolysis (%),	Site 1	0.33 (0.34)	0.32 (0.34)	0.30 (0.15)	0.05	0.855
mean (SD)	Site 2	0.34 (0.13)	0.31 (0.16)	0.31 (0.19)	0.363	0.995
Osmotia	Site 1	20.0 (14.4)	19.6 (15.2)	31.0 (22.3)	0.885	0.152
Fragility [‡]	Site 2	0.51 (0.03)	0.51 (0.03)	0.49 (0.02)	0.935	0.009

Abbreviations: dRBC A = Unit A of the Double Red Blood Cell Collection, dRBC B = Unit B of the Double Red Blood Cell Collection, sRBC = Single Red Blood Cell Unit, SD = Standard Deviation

* All outcome measures are shown after 42 days of storage in AS-3 solution.

[†] All comparisons were performed using a Student's T-test. A 2-tailed paired comparison was performed for dRBC A v dRBC B. A 2- tailed, two sample, equal variance comparison was performed for sRBC v dRBC units.

[‡] Osmotic fragility was measured as percent hemolysis in 0.55% saline at Site 1 and as the percent saline at \geq 50% hemolysis at Site 2.

The primary outcome of this study was to demonstrate RBC collection, storage, and viability *in vitro*.

The sRBC and dRBC units collected were comparable. The hematocrits, blood gasses, ATP, potassium, total hemoglobin, and osmotic fragility were within acceptable ranges following storage. Two statistically significant differences were identified between the A and B units in the dRBC collection at Day 42 (sodium and plasma free hemoglobin), but these differences were not clinically significant. There was no difference between dRBC units in hemolysis following storage in ADDITIVE SOLUTION FORMULA 3 (AS-3). A statistically significant difference was identified in the osmotic fragility of RBCs stored in ADDITIVE SOLUTION FORMULA 3 (AS-3) following sRBC collection or dRBC collection at Day 42, but the difference was not clinically significant. All the RBC units collected averaged less than 1% hemolysis on Day 42. These results are consistent with US and

European guidelines for hemolysis on transfusion. ATP recovery was greater than 70% of all units, which is predictive of good *in vivo* viability, and potassium levels on Day 42 average less than 50 mEq/L indicating good RBC membrane stability over the storage period.

16 HOW SUPPLIED/STORAGE AND HANDLING

ADDITIVE SOLUTION FORMULA 3 (AS-3) is a clear solution supplied in sterile and non-pyrogenic Polyolefin bags.

SIZE	CATALOG NUMBER	NDC NUMBER	QUANTITY PER CASE
100 mL	40824	14537-824- 10	36
200 mL	40826	14537-826- 20	30
350 mL	40828	14537-828- 35	24

STORAGE

Up to 25 °C.

Protect from freezing.

Issued: July 18, 2018

Manufactured by **Terumo BCT, Inc.** Lakewood, CO 80215

PRINCIPAL DISPLAY PANEL - 100 mL Bag Pouch Carton Label

Additive Solution Formula 3 (AS-3)

Catalog # 40824 Polyolefin Bag 6 X 6 X 100 mL units NDC 14537-824-10

Use only with Trima Accel red blood cell apheresis collections. See apheresis device operator's manual for complete instructions. Read the package insert before use. Sterile. Non-pyrogenic. Sterilized with steam. Caution: Do not use if the bag is damaged. Use only if solution is clear and free of particulate matter. Single use bag. Discard any unused product. Not for direct intravenous infusion. Rx Only. Recommended storage: Up to 25 °C. Protect from freezing. Protect from light. Each 100 mL contains: Dextrose Monohydrate USP 1.10 g Trisodium Citrate Dihydrate USP 0.588 g Sodium Chloride USP 0.410 g Monobasic Sodium Phosphate Monohydrate USP

0.276 g Citric Acid Monohydrate USP 0.042 g Adenine USP 0.030 g In Water for Injection USP

Manufactured by Terumo BCT, Inc. TERUMOBCT 10811 W. Collins Ave., Lakewood CO 80215, USA 777965-076

Lot Expiry Date

Additive Solution Formula 3 (AS-3) Catalog # 40824 Polyolefin Bag 6 X 6 X 100 mL units

NDC 14537-824-10

Use only with Trima Accel red blood cell apheresis collections. See apheresis device operator's manual for complete instructions. Read the package insert before use. Sterile. Non-pyrogenic. Sterilized with steam. Caution: Do not use if the bag is damaged. Use only if solution is clear and free of particulate matter. Single use bag. Discard any unused product. Not for direct intravenous infusion. Rx Only. Recommended storage: Up to 25 °C. Protect from freezing. Protect from light. Each 100 mL contains: Dextrose Monohydrate USP 1.10 g Trisodium Citrate Dihydrate USP 0.588 g Sodium Chloride USP 0.410 g Monobasic Sodium Phosphate Monohydrate USP 0.276 g 0.042 g Citric Acid Monohydrate USP Adenine USP 0.030 g In Water for Injection USP **TERUMO**BCT Manufactured by Terumo BCT, Inc. 10811 W. Collins Ave., Lakewood CO 80215, USA 777965-076

Lot

Expiry Date

PRINCIPAL DISPLAY PANEL - 200 mL Bag Carton Label

Additive Solution Formula 3 (AS-3)

Catalog # 40826 Polyolefin Bag 30 X 200 mL units NDC 14537-826-20

Use only with Trima Accel red blood cell apheresis collections. See apheresis device operator's manual for complete instructions. Read the package insert before use. Sterile. Non-pyrogenic. Sterilized with steam. Caution: Do not use if the bag is damaged. Use only if solution is clear and free of particulate matter. Single use bag. Discard any unused product. Not for direct intravenous infusion. Rx Only.

Recommended storage: Up to 25 °C. Protect from freezing. Protect from light. Each 100 mL contains: Dextrose Monohydrate USP 1.10 g Trisodium Citrate Dihydrate USP 0.588 g Sodium Chloride USP 0.410 g Monobasic Sodium Phosphate Monohydrate USP 0.276 g Citric Acid Monohydrate USP 0.042 g Adenine USP 0.030 g In Water for Injection USP

Manufactured by Terumo BCT, Inc. TERUMOBCT 10811 W. Collins Ave., Lakewood CO 80215, USA 777965-078

Lot Expiry Date

Additive Solution Formula 3 (AS-3)

Catalog # 40826 Polyolefin Bag 30 X 200 mL units NDC 14537-826-20 Use only with Trima Accel red blood cell apheresis collections. See apheresis device operator's manual for complete instructions. Read the package insert before use. Sterile. Non-pyrogenic. Sterilized with steam. Caution: Do not use if the bag is damaged. Use only if solution is clear and free of particulate matter. Single use bag. Discard any unused product. Not for direct intravenous infusion. Rx Only. Recommended storage: Up to 25 °C. Protect from freezing. Protect from light. Each 100 mL contains: 1.10 g Dextrose Monohydrate USP Trisodium Citrate Dihydrate USP 0.588 a Sodium Chloride USP 0.410 g Monobasic Sodium Phosphate Monohydrate USP 0.276 g Citric Acid Monohydrate USP 0.042 g Adenine USP 0.030 g In Water for Injection USP Manufactured by Terumo BCT, Inc. **TERUMO**BCT 10811 W. Collins Ave., Lakewood CO 80215, USA 777965-078

Lot

Expiry Date

PRINCIPAL DISPLAY PANEL - 350 mL Bag Carton Label

Additive Solution Formula 3 (AS-3)

Catalog # 40828 Polyolefin Bag 24 X 350 mL units NDC 14537-828-35

Use only with Trima Accel red blood cell apheresis collections. See apheresis device operator's manual for complete instructions. Read the package insert before use. Sterile. Non-pyrogenic. Sterilized with steam. Caution: Do not use if the bag is damaged. Use only if solution is clear and free of particulate matter. Single use bag. Discard any unused product. Not for direct intravenous infusion. Rx Only. Recommended storage: Up to 25 °C. Protect from freezing. Protect from light. Each 100 mL contains: Dextrose Monohydrate USP 1.10 g Trisodium Citrate Dihydrate USP 0.588 g Sodium Chloride USP 0.410 g Monobasic Sodium Phosphate Monohydrate USP 0.276 g Citric Acid Monohydrate USP 0.042 g Adenine USP 0.030 g In Water for Injection USP Manufactured by Terumo BCT, Inc. TERUMOBCT 10811 W. Collins Ave., Lakewood CO 80215, USA 777965-080

Lot Expiry Date

Additive Solution Formula 3 (AS-3) Catalog # 40828 Polyolefin Bag 24 X 350 mL units

NDC 14537-828-35

Use only with Trima Accel red blood cell apheresis collections. See apheresis device operator's manual for complete instructions. Read the package insert before use. Sterile. Non-pyrogenic. Sterilized with steam. Caution: Do not use if the bag is damaged. Use only if solution is clear and free of particulate matter. Single use bag. Discard any unused product. Not for direct intravenous infusion. Rx Only. Recommended storage: Up to 25 °C. Protect from freezing. Protect from light. Each 100 mL contains: 1.10 g Dextrose Monohydrate USP 0.588 g Trisodium Citrate Dihydrate USP Sodium Chloride USP 0.410 g Monobasic Sodium Phosphate Monohydrate USP 0.276 g Citric Acid Monohydrate USP 0.042 g 0.030 g Adenine USP In Water for Injection USP Manufactured by Terumo BCT, Inc. **T** 10811 W. Collins Ave., Lakewood CO 80215, USA **TERUMO**BCT 777965-080

Lot

Expiry Date

ADDITIVE FORMULA 3

dextrose monohydrate, trisodium citrate dihydrate, sodium chloride, sodium phosphate, monobasic, monohydrate, citric acid monohydrate, and adenine solution

Product Information								
Product T ype	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:14537-824					
Route of Administration	INTRAVENOUS							

Active Ingredient/Active Moiety							
Basis of Strength	Strength						
Dextrose Monohydrate	1.1 g in 100 mL						
ANHYDROUS CITRIC ACID	0.59 g in 100 mL						
Sodium Chloride	0.41 g in 100 mL						
SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE	0.28 g in 100 mL						
ANHYDROUS CITRIC ACID	0.042 g in 100 mL						
Adenine	0.03 g in 100 mL						
	Basis of Strength Dextrose Monohydrate ANHYDROUS CITRIC ACID Sodium Chloride SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE ANHYDROUS CITRIC ACID Adenine						

I	nactive Ing	redient	İS				
			Ingredient Name			Strer	ıgth
W	Vater (UNII: 059QF0KO0R)						
P	ackaging						
#	Item Code		Package Description		Market Start D	ing ate	Marketing End Date
1	NDC:14537- 824-10	6 in 1 C	ARTON				
1		6 in 1 PC	DUCH				
1		100 mL Drug/De	in 1 BAG; Type 9: Other Type of Part 3 Combination Pro vice/Biological Product)	oduct (e.g.,			
N	/Iarketing	g Info	rmation				
ľ	/Iarketing Ca	tegory	Application Number or Monograph Citation	Marketing S	tart Date	Mark	eting End Date
Ν	DA		BN001214	05/29/2002			
_							
A	DDITIVE	E FOR	MULA 3				
de	xtrose mono	hydrate	, trisodium citrate dihydrate, sodium chloride, s	odium phospl	nate, mono	basic,	monohydrate,
ci	ric acid mon	ohydrat	e, and adenine solution				

Product Information								
Product T ype	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:14537-826					
Route of Administration	INTRAVENOUS							

Active Ingredient/Active Moiety					
Ingredient Name	Basis of Strength	Strength			
Dextrose Monohydrate (UNII: LX22YL083G) (ANHYDROUS DEXTROSE - UNII:5SL0G7R0OK)	Dextrose Monohydrate	1.1 g in 100 mL			
Trisodium Citrate Dihydrate (UNII: B22547B95K) (ANHYDROUS CITRIC ACID - UNII:XF417D3PSL)	ANHYDROUS CITRIC ACID	0.59 g in 100 mL			
Sodium Chloride (UNII: 451W47IQ8X) (CHLORIDE ION - UNII:Q32ZN48698, SODIUM CATION - UNII:LYR4M0NH37)	Sodium Chloride	0.41 g in 100 mL			
SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN) (PHOSPHATE ION - UNII:NK08V8K8HR, SODIUM CATION - UNII:LYR4M0NH37)	SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE	0.28 g in 100 mL			
Citric Acid Monohydrate (UNII: 2968PHW8QP) (ANHYDROUS CITRIC ACID - UNII:XF417D3PSL)	ANHYDROUS CITRIC ACID	0.042 g in 100 mL			
Adenine (UNII: JAC85A2161) (Adenine - UNII:JAC85A2161)	Adenine	0.03 g in 100 mL			

Inactive Ingredients				
Ingredient Name	Strength			
Water (UNII: 059QF0KO0R)				

Dackaging								
#	Item Code		Package Description		Market Start D	ing ate	Marketing End Date	
1	NDC:14537- 826-20	30 in 1	D in 1 CARTON					
1		200 mL Drug/De) mL in 1 BAG; Type 9: Other Type of Part 3 Combination Product (e.g., g/Device/Biological Product)					
Marketing Information								
N	Marketing Category		Application Number or Monograph Citation	Marketing Start Date		Date Marketing End I		
N	NDA		BN001214	05/29/2002				

ADDITIVE FORMULA 3

dextrose monohydrate, trisodium citrate dihydrate, sodium chloride, sodium phosphate, monobasic, monohydrate, citric acid monohydrate, and adenine solution

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:14537-828	
Route of Administration	INTRAVENOUS			

Active Ingredi	ient/Active Moiety				
	Ingredient Name	В	Basis of Strength		Strength
Dextrose Monohydrate (UNII: LX22YL083G) (ANHYDROUS DEXTROSE - Dextrose Monohydrate UNII:5SL0G7R0OK) Dextrose Monohydrate					1.1 g in 100 mL
Trisodium Citrate Dihydrate (UNII: B22547B95K) (ANHYDROUS CITRIC ACID - UNII:XF417D3PSL)ANHYDROUS CITRIC ACID					
Sodium Chloride (UNII: 451W47IQ8X) (CHLORIDE ION - UNII:Q32ZN48698, SODIUM CATION - UNII:LYR4M0NH37) Sodium Chloride					
SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE (UNII: 593YOG76RN) (PHOSPHATE ION - UNII:NK08V8K8HR, SODIUM CATION - UNII:LYR4M0NH37)SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE					0.28 g in 100 mL
Citric Acid Monohydrate (UNII: 2968PHW8QP) (ANHYDROUS CITRIC ACID - UNII:XF417D3PSL) ANHYDROUS CITRIC ACID					0.042 g in 100 mL
Adenine (UNII: JAC85A2161) (Adenine - UNII: JAC85A2161) Adenine					0.03 g in 100 mL
Inactive Ingre	dients				
Ingredient Name Strength					
Water (UNII: 059Q	F0KO0R)				
Packaging					
# Item Code	Package Description		Marketing Start Date	Ma Ei	arketing nd Date

1	NDC:14537- 828-35	24 in 1 C	ARTON					
1		350 mL Drug/De	in 1 BAG; Type 9: Other Type of F vice/Biological Product)	Part 3 Combination Pro	duct (e.g.,			
N	Marketing Information							
N	/larketing Ca	tegory	Application Number or Mo	nograph Citation	Marketing S	tart Date	Marketi	ing End Date
Ν	DA		BN001214		05/29/2002			

Labeler - Terumo BCT, Ltd (233649834)

Establishment					
Name	Address	ID/FEI	Business Operations		
Terumo		233649834	LABEL(14537-824, 14537-826, 14537-828), ANALYSIS(14537-824, 14537-826, 14537-828),		
BCT, Ltd			STERILIZE(14537-824, 14537-826, 14537-828), MANUFACTURE(14537-824, 14537-826, 14537-828)		

Revised: 4/2019

Terumo BCT, Ltd