

Reagent 1, 3, & 2



Kit MSDS

Doc. ID: 8547111-75: Rev. AA

Product Name	A ^c T TAINER™	Doc. ID 8547111-75 AA Issued (day/month/year) 19/10/2000
Part Number	8547111	
Series Name:	Coulter®	

Description
Reagent 1 Reagent 3 Reagent 2

Transportation of this product is not regulated under ICAO, IATA, US DOT, European ADR or Canadian TDG.



MATERIAL SAFETY DATA SHEET

Product Name	Reagent 1	A^{CO}T TAINER™ Doc. ID 8547111-75 AA Issued (day/month/year) 19/10/2000
Part Number	Component of P/N 8547111	
Manufacturer	Beckman Coulter, Inc. 4300 Harbor Blvd. Fullerton, CA 92834-3100, U.S.A.	
Distributor and Emergency Phone No.	☎	Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

Hazardous Ingredients:	None
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Emergency Overview	<p style="text-align: center;"> Colorless; Clear; Liquid; Odorless Nonflammable aqueous solution. Does not meet EU, OSHA or WHMIS criteria for hazardous materials. </p>
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A-Physical Hazards	No physical hazards were determined from a review of available literature.		
B-Potential Health Effects Summary	This product does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
Product Hazard Classifications	EU: Not applicable	WHMIS: Not applicable	US OSHA: Not applicable
Beckman Coulter Safety Rating	Flammability (Section IV): 0 Health (Section V): 1 Reactivity (Section VI): 0 Contact (Section VIII): 1	Code 0=none 1=slight 2=caution 3=severe	

Inhalation	If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.
Eye Contact	If product is splashed in eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.
Skin Contact	In case of skin contact, wash area with soap and water. Rinse well with water.
Ingestion	If product is swallowed, call physician or poison control center for most current information. Never induce vomiting or give liquids to someone who is unconscious or cannot swallow.

Reagent 1

Flash Point	Not applicable
Flammable Limits	Not applicable
Autoignition Temp.	Not applicable
Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Special Fire and Explosion Hazards	No special hazards determined.
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product (a dilute aqueous solution).
Protective Equipment for Firefighters	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

Personal Precautions	No special precautions are necessary. Use good laboratory procedures.
Spill and Leak Procedures	Wipe up spill and place in container suitable for disposal.
Environmental Precautions	Contain spill to prevent migration.

Handling Precautions	No special precautions are necessary; use good laboratory procedures.
Recommended Storage Conditions	Keep in the original container at room temperature.

Exposure Limits	
US OSHA:	None established
ACGIH:	None established
DFG MAK:	None established
Engineering Controls	No special engineering controls are required. Use with good general ventilation.
Respiratory Protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye Protection	Safety glasses are recommended to prevent eye contact.
Skin Protection	Impervious gloves are recommended to prevent repeated or prolonged skin contact.

Physical State	Liquid
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Reagent 1

Color	Colorless
Transparency	Clear
Odor	Odorless
Odor Threshold	Not applicable
pH	7.0
Boiling Point	Not available
Melting Point	Not available
Specific Gravity	1.02 @20°C
Vapor Pressure	Not available
Vapor Density	Not available
Evaporation Rate	Not available
Coefficient of Water/Oil Distribution	Not available
Percent Volatiles	Not applicable
Solubility	
Water	Miscible
Organic	Not available

Stability	Stable under normal temperatures and pressures.
Hazardous Incompatibilities	No hazardous incompatibilities were determined from a review of literature available.
Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).
Conditions to Avoid	None determined.

Toxicity Data for Hazardous Ingredients	Not applicable
Primary Routes of Exposure	The most likely routes of exposure are skin and eye contact.
Potential Effects of Acute Exposure	None identified.
Potential Effects of Chronic Exposure	None identified.
Symptoms of Overexposure	None identified.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.

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Other Effects	None identified.
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Conditions Aggravated by Exposure	None identified.
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Ecotoxicity	Toxic to fish and other water organisms.
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Biodegradability	No information available.
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Mobility	No information available.
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Waste Disposal	Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transportation of this product is not regulated under ICAO, IATA, US DOT, European ADR or Canadian TDG.

US Federal and State Regulations

SARA 313	Formaldehyde is subject to reporting requirements of Section 313, Title III of SARA.
CERCLA RG's, 40 CFR 302.4	Formaldehyde is listed. Sodium Hydroxide is listed.
California Proposition 65	Formaldehyde has been identified by the State of California to cause cancer. The State of California has adopted a regulation which requires a warning be given to individuals who may be exposed to chemicals identified by the State to cause cancer or reproductive harm. Accordingly, Beckman Coulter advises you of the following warning: WARNING: This product contains a chemical known to the State of California to cause cancer.
Massachusetts MSL	Formaldehyde is listed. Sodium Hydroxide is listed. Sodium Sulfate is listed.
New Jersey Dept. of Health RTK List	Formaldehyde is listed. Sodium Hydroxide is listed.
Pennsylvania RTK	Formaldehyde is listed. Propylene Glycol is listed. Sodium Hydroxide is listed. Sodium Sulfate is listed.
Florida Substance List	No ingredients listed

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EU Labeling Classification	
Dangerous Ingredients	Not applicable

Canada

This product does not meet WHMIS criteria for hazardous materials.

PIN:	Not applicable
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Ingredients on Ingredient Disclosure List:	Formaldehyde Propylene Glycol Sodium Hydroxide
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Ingredients with unknown toxicological properties:	None
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For further information, please contact your local Beckman Coulter representative.

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MATERIAL SAFETY DATA SHEET

Product Name	Reagent 3	A^{CO}T TAINER™ Doc. ID 8547111-75 AA Issued (day/month/year) 19/10/2000
Part Number	Component of P/N 8547111	
Manufacturer	Beckman Coulter, Inc. 4300 Harbor Blvd. Fullerton, CA 92834-3100, U.S.A.	
Distributor and Emergency Phone No.	☎	Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

Hazardous Ingredients:	None
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Emergency Overview	Blue; Clear; Liquid; Odorless Nonflammable aqueous solution. Does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
A-Physical Hazards	No physical hazards were determined from a review of available literature.		
B-Potential Health Effects Summary	This product does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
Product Hazard Classifications	EU: Not applicable	WHMIS: Not applicable	US OSHA: Not applicable
Beckman Coulter Safety Rating	Flammability (Section IV): 0 Health (Section V): 1 Reactivity (Section VI): 0 Contact (Section VIII): 1	Code 0=none 1=slight 2=caution 3=severe	

Inhalation	If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.
Eye Contact	If product is splashed in eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.
Skin Contact	In case of skin contact, wash area with soap and water. Rinse well with water.
Ingestion	If product is swallowed, call physician or poison control center for most current information. Never induce vomiting or give liquids to someone who is unconscious or cannot swallow.

Flash Point	Not applicable
Flammable Limits	Not applicable
Autoignition Temp.	Not applicable
Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Special Fire and Explosion Hazards	No special hazards determined.
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product (a dilute aqueous solution).
Protective Equipment for Firefighters	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

Personal Precautions	No special precautions are necessary. Use good laboratory procedures.
Spill and Leak Procedures	Wipe up spill and place in container suitable for disposal.
Environmental Precautions	Contain spill to prevent migration.

Handling Precautions	No special precautions are necessary; use good laboratory procedures.
Recommended Storage Conditions	Keep in the original container at room temperature.

Exposure Limits	
US OSHA:	None established
ACGIH:	None established
DFG MAK:	None established
Engineering Controls	No special engineering controls are required. Use with good general ventilation.
Respiratory Protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye Protection	Safety glasses are recommended to prevent eye contact.
Skin Protection	Impervious gloves are recommended to prevent repeated or prolonged skin contact.

Physical State	Liquid
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Color	Blue
Transparency	Clear
Odor	Odorless
Odor Threshold	Not applicable
pH	8.5-8.9
Boiling Point	Not available
Melting Point	Not available
Specific Gravity	1.04 @20°C
Vapor Pressure	Not available
Vapor Density	Not available
Evaporation Rate	Not available
Coefficient of Water/Oil Distribution	Not available
Percent Volatiles	Not applicable
Solubility Water Organic	Miscible Not available

Stability	Stable under normal temperatures and pressures.
Hazardous Incompatibilities	No hazardous incompatibilities were determined from a review of literature available.
Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).
Conditions to Avoid	None determined.

Toxicity Data for Hazardous Ingredients	Not applicable
Primary Routes of Exposure	The most likely routes of exposure are skin and eye contact.
Potential Effects of Acute Exposure	None identified.
Potential Effects of Chronic Exposure	None identified.
Symptoms of Overexposure	None identified..
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.

Other Effects	None identified.
Conditions Aggravated by Exposure	None identified.

Ecotoxicity	No information available.
Biodegradability	No information available.
Mobility	No information available.

Waste Disposal	Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.
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Transportation of this product is not regulated under ICAO, IATA, US DOT, European ADR or Canadian TDG.

US Federal and State Regulations	
SARA 313	Ethylene Oxide is subject to reporting requirements of Section 313, Title III of SARA. 1,4-Dioxane is subject to reporting requirements of Section 313, Title III of SARA. Phosphoric Acid is subject to reporting requirements of Section 313, Title III of SARA. Ethylene Glycol Monobutyl Ether is subject to reporting requirements of Section 313, Title III of SARA.
CERCLA RG's, 40 CFR 302.4	Ethylene Oxide is listed. 1,4-Dioxane is listed. Sodium Hydroxide is listed. Phosphoric Acid is listed. Ethylene Glycol Monobutyl Ether is listed.

US Federal and State Regulations

California Proposition 65

Ethylene Oxide has been identified by the State of California to cause cancer and reproductive harm. The State of California has adopted a regulation which requires a warning be given to individuals who may be exposed to chemicals identified by the State to cause cancer or reproductive harm. Accordingly, Beckman Coulter advises you of the following warning:

WARNING: This product contains a chemical known to the State of California to cause cancer and reproductive harm.

1,4-Dioxane has been identified by the State of California to cause cancer. The State of California has adopted a regulation which requires a warning be given to individuals who may be exposed to chemicals identified by the State to cause cancer or reproductive harm. Accordingly, Beckman Coulter advises you of the following warning:

WARNING: This product contains a chemical known to the State of California to cause cancer.

Massachusetts MSL

Ethylene Oxide is listed.
Ethylene Glycol Monobutyl Ether is listed.
1,4-Dioxane is listed.
Sodium Hydroxide is listed.
Phosphoric Acid is listed.
Magnesium Nitrate is listed.
Magnesium Chloride is listed.

New Jersey Dept. of Health RTK List

Ethylene Oxide is listed.
Ethylene Glycol Monobutyl Ether is listed.
1,4-Dioxane is listed.
Sodium Hydroxide is listed.
Phosphoric Acid is listed.
Magnesium Nitrate is listed.
Magnesium Chloride is listed.

Pennsylvania RTK

Propylene Glycol is listed.
Ethylene Oxide is listed.
Ethylene Glycol Monobutyl Ether is listed.
1,4-Dioxane is listed.
Sodium Hydroxide is listed.
Phosphoric Acid is listed.
Magnesium Nitrate is listed.
Magnesium Chloride is listed.

Florida Substance List

No ingredients listed

EU Labeling Classification

Dangerous Ingredients

Not applicable

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Canada

This product does not meet WHMIS criteria for hazardous materials.

PIN: Not applicable

Ingredients on Ingredient Disclosure List:	Propylene Glycol Ethylene Oxide Ethylene Glycol Monobutyl Ether 1,4-Dioxane Sodium Hydroxide Phosphoric Acid
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Ingredients with unknown toxicological properties:	None
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For further information, please contact your local Beckman Coulter representative.

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MATERIAL SAFETY DATA SHEET

Product Name	Reagent 2	A^{CO}T TAINER™ Doc. ID 8547111-75 AA Issued (day/month/year) 19/10/2000
Part Number	Component of P/N 8547111	
Manufacturer	Beckman Coulter, Inc. 4300 Harbor Blvd. Fullerton, CA 92834-3100, U.S.A.	
Distributor and Emergency Phone No.	☎	Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

Hazardous Ingredients:			Meets Hazardous Criteria:		
Chemical Name	CAS #	% by wt.	EU	US OSHA	WHMIS
Isopropyl Alcohol	67-63-0	<2.0	No	Yes	Exempt
Quaternary Ammonium Salt	*	<2.0	No	Yes	Exempt

See Section 15 Regulatory Information for additional information on hazard classifications.
 * The specific identity of a hazardous ingredient in this product has been withheld as a trade secret. Information concerning the hazards and other pertinent properties of this ingredient are included in this MSDS.

Emergency Overview	Yellow; Clear; Liquid; Faint aromatic odor Nonflammable aqueous solution. Skin and eye irritant.		
A-Physical Hazards	No physical hazards were determined from a review of available literature.		
B-Potential Health Effects Summary	Exposure may result in irritation of skin, eyes, and mucous membranes. See Section 11 Toxicological Information for more detailed health information.		
Product Hazard Classifications	EU: Not applicable	WHMIS: Exempt	US OSHA: Hazardous
Beckman Coulter Safety Rating	Flammability (Section IV): 0 Health (Section V): 2 Reactivity (Section VI): 0 Contact (Section VIII): 2		Code 0=none 1=slight 2=caution 3=severe

Inhalation	If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.
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Eye Contact	If product is splashed in eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.
Skin Contact	In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.
Ingestion	If product is swallowed, call physician or poison control center for most current information. Never induce vomiting or give liquids to someone who is unconscious or cannot swallow.

Flash Point	Not applicable
Flammable Limits	Not applicable
Autoignition Temp.	Not applicable
Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Special Fire and Explosion Hazards	No special hazards determined.
Hazardous Combustion Products	Due to the composition and volume of this product, combustion products generated from it are not expected to present a significant hazard.
Protective Equipment for Firefighters	Self-contained breathing apparatus is recommended for firefighters.

Personal Precautions	Avoid skin contact. Use universal precautions during clean up procedures.
Spill and Leak Procedures	For small spills, wipe up material and place in container suitable for disposal.
Environmental Precautions	Contain spill to prevent migration.

Handling Precautions	Use good laboratory procedures; avoid eye and skin contact.
Recommended Storage Conditions	Keep away from incompatible material. To maintain efficacy, store according to the instructions in the product labeling.

Exposure Limits	
US OSHA:	
Isopropyl Alcohol	400 ppm TWA; 980 mg/m ³ TWA
ACGIH:	
Isopropyl Alcohol	(500) ppm STEL; (400) ppm TWA

DFG MAK:	
Isopropyl Alcohol	200 ppm MAK; 500 mg/m ³ MAK; 2 x normal MAK (30 min. average value); don't exceed 4 times during shift; half-life <2h
Engineering Controls	Use in well ventilated area.
Respiratory Protection	Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.
Eye Protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin Protection	Impervious gloves, such as latex or equivalent, should be worn to prevent skin contact.

Physical State	Liquid
Color	Yellow
Transparency	Clear
Odor	Faint aromatic odor
Odor Threshold	Isopropyl Alcohol geometric mean air odor threshold = 43 ppm (detectable); 19 ppm (recognizable)
pH	10.9
Boiling Point	Not available
Melting Point	Not available
Specific Gravity	1.04 @20°C
Vapor Pressure	Not available
Vapor Density	Not available
Evaporation Rate	Not available
Coefficient of Water/Oil Distribution	Not available
Percent Volatiles	Not available
Solubility	
Water	Miscible
Organic	Not available

Stability	Stable under normal temperatures and pressures.
Hazardous Incompatibilities	Strong oxidizers Strong acids Strong bases
Hazardous Decomposition Products	When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

Conditions to Avoid

Keep away from incompatible material.

**Toxicity Data
for Hazardous Ingredients**

Isopropyl Alcohol

Inhalation LC50 Rat : 16000 ppm/8H; Oral LD50 Rat : 5045 mg/kg; Oral LD50
Mouse: 3600 mg/kg; Dermal LD50 Rabbit : 12800 mg/kg**Primary Routes
of Exposure**

The most likely routes of exposure are skin, eye contact and inhalation.

**Potential Effects of
Acute Exposure**

Inhalation of dilute alkaline mists may result in irritation of mucous membranes with sore throat, coughing, difficulty in breathing; intense exposure, the lungs may fill with fluid. Contact with dilute solutions may cause irritation or skin injury with redness, fissures and white patches. Eye contact may result in severe burns with possible loss of sight, irritation of eyes and eyelids, pain and intense watering. Ingestion may result in burns to the mouth, throat and stomach with burning sensations in the mouth, abdominal pain, vomiting, diarrhea, shock and loss of consciousness. Exposure to isopropyl alcohol vapor may cause irritation of nose, throat and eyes. Inhalation of high concentrations may cause narcotic effects and mild to deep central nervous system depression with headache, drowsiness, dizziness and stupor. Skin contact may cause slight irritation; skin absorption may occur. Eye contact with vapor is mildly irritating, however, liquid contact may result in severe irritation with an intense burning sensation. Ingestion may cause narcotic effects, central nervous system depression, hemorrhaging and lung damage. Symptoms may include those for inhalation as well as vomiting, bleeding and unconsciousness.

The toxicological properties of an ingredient in this product have not been fully determined.

**Potential Effects of
Chronic Exposure**

Repeated skin contact with dilute alkaline may cause irritation with redness and swelling or burns. Repeated eye contact may cause conjunctivitis with redness, swelling and watering or burns. Depending upon concentration, repeated ingestion may result in inflammatory or ulcerative effects on the mouth with redness, swelling and sores in the mouth.

Repeated or prolonged exposure to isopropyl alcohol by skin and eye contact may result in dermatitis with dry, cracked skin and conjunctivitis with red, swollen eyes. No long term effects of ingestion of isopropyl alcohol have been reported in humans; animal tests have resulted in weight loss, unconsciousness, and death.

**Symptoms of
Overexposure**

Symptoms of overexposure may include: redness, burning and watering of the eyes; dry, red, cracked skin; coughing and difficult breathing, central nervous system depression, and coma.

Carcinogenicity

No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.

Other Effects

Reproductive effects have been reported.

**Conditions Aggravated
by Exposure**

Individuals with eye and skin disorders may find these conditions aggravated by exposure to this product.

Ecotoxicity

Toxic to fish and other water organisms.

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Biodegradability No information available.

Mobility No information available.

Waste Disposal Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

Transportation of this product is not regulated under ICAO, IATA, US DOT, European ADR or Canadian TDG.

US Federal and State Regulations

SARA 313	Isopropyl Alcohol is subject to reporting requirements of Section 313, Title III of SARA.
CERCLA RG's, 40 CFR 302.4	Potassium Cyanide is listed. Sodium Hydroxide is listed.
California Proposition 65	No ingredients listed
Massachusetts MSL	Isopropyl Alcohol is listed. Potassium Cyanide is listed. Sodium Hydroxide is listed.
New Jersey Dept. of Health RTK List	Isopropyl Alcohol is listed. Potassium Cyanide is listed. Sodium Hydroxide is listed.
Pennsylvania RTK	Isopropyl Alcohol is listed. Potassium Cyanide is listed. Sodium Hydroxide is listed.
Florida Substance List	No ingredients listed

EU Labeling Classification

Dangerous Ingredients Not applicable

Canada

This product is exempt from WHMIS label and MSDS requirements.

PIN: Not applicable

Ingredients on Ingredient Disclosure List: Isopropyl Alcohol
Citric Acid
Sodium Hydroxide

Ingredients with unknown toxicological properties: Product is exempt

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For further information, please contact your local Beckman Coulter representative.

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DISTRIBUTOR AND EMERGENCY CONTACT PHONE NUMBERS

Document ID: 472050

Effective Date: April 22, 2003

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