

OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

CTL-TEST™ PLUS
CTL-TEST™ B

Section 1: IDENTIFICATION

Product name: CTL-Test[™], CTL-Test[™] PLUS, CTL-Test[™] B (ImmunoSpot[®] Kit)

Catalog number: CTLT-010, CTLT-005, CTLTP-010, CTLTP-005, CTLTB-010, CTLTB-005; serum-free cell culture

medium included in all ImmunoSpot® Kits.

Company name: Cellular Technology Limited

20521 Chagrin Boulevard

Shaker Heights, OH 44122-5350 USA +1 216-791-5084 T • +1 216-751-1373 F

+1 888-791-4005 Toll Free US kits@immunospot.com www.immunospot.com

Recommended usage: CTL-Test™ Medium provides a nutritionally complete and balanced environment for cells

used in ELISPOT assays.

For laboratory research use only. Not for use in diagnostic or therapeutic procedures.

Emergency telephone: +1 216-791-5084; +1 888-791-4005 Toll Free US

Section 2: HAZARD(S) IDENTIFICATION

Classification: Buffered, serum-free solution containing a proprietary blend of injection-grade water

supplemented with amino acids, vitamins, inorganic salts, and HSA; none of which are

considered hazardous at the concentration level used.

GHS signal word: Not a hazardous mixture
Hazard statements: Not a hazardous mixture
Precautionary statements: Not a hazardous mixture
Response statements: Not a hazardous mixture
Risk phrases: Not a hazardous mixture

Safety phrases: S36/S37 – Wear suitable protective clothing and gloves.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINS	CAS NUMBER	EC NUMBER	CONTENT
HSA	70024-90-7	274-272-6	N/A

Section 4: FIRST-AID MEASURES

Description of first aid measures:

Skin and eyes: In case of contact with eyes, wash or flush eyes as a precaution.

Inhalation: No treatment as this product is not likely to be inhaled.

Ingestion: If ingested do not induce vomiting; rinse mouth with water.



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Section 5: FIRE-FIGHTING MEASURES

Suitable extinguising media: Carbon dioxide extinguishing powder, dry chemicals, or water spray can be used for small

fires. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from

the substance or mixture: No further relevant information available

Advice for firefighters: Wear self-contained breathing apparatus if necessary

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use proper personal protective equipment

Environmental precautions: No precautions required

Containment/ For spills and leaks, ventilate area of leak or spill. Absorb spill using an absorbent,

clean-up measures: noncombustable material and dispose of collected material according to local and

regional regulations.

Section 7: HANDLING AND STORAGE

Precautions for Use only with adequate ventilation. **safe handling:** Wear chemical-resistant gloves.

Conditions for safe storage: Store refrigerated at 4°C, protect from light

Incompatible materials: Strong acids, strong oxidizing agents, and strong reducers.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

PEL: This product does not contain any ingredients listed on OSHA PEL Threshold Limit Values.

Personal protective

equipment: Wear chemical-resistant gloves

General protective Handle in accordance with good industrial hygiene and safety practice.

hygiene considerations: Wash hands thoroughly with soap and water after handling and before eating or drinking.

Safety shower and eye wash should be available and close to work areas.

Environmental

exposure controls: Follow best practice for site management and disposal of waste.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear orange-red liquid	Vapor pressure	Not available
Odor	Odorless	Vapor density	Not available
Odor threshold	Not available	Relative density	Not available
рН	Not available	Solubility	Complete
Melting point	Not available	Partition coefficeient	Not available
Freezing point	Not available	Auto-ignition temperature	Not available
Initial boiling point and range	Not available	Decomposition temperature	Not available
Flash point	Not available	Evaporation rate	Not available
Flammability (solid, gas)	Not available	Viscosity	Not available
Upper/lower flammability or explosive limits	Not available		



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Section 10: STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous

reactions: No data available

Conditions to avoid: No data available

Incompatible materials: Strong acids, strong oxidizing agents, and strong reducers.

Hazardous

decomposition products: None

Section 11: TOXICOLOGICAL INFORMATION

Routes of entry/exposure: Skin, eyes, ingestion

Reproductive toxicity: No data available

Acute toxicity: No data available

Acute effects on skin: Not a skin irritant

Chronic effects on skin: No data available

Acute effects on eyes: Not an eye irritant

Chronic effects on eyes: No data available

Carcinogenicity: No data available

Germ cell mutagenicity: No data available

Symptoms of

chemical exposure: None known

Section 12: ECOLOGICAL INFORMATION

Toxicity: No data available

Persistance and

biodegradability: No data available **Bioaccumulative potential:** No data available

Mobility in soil: No data available

Other adverse effects: No data available on the adverse effects of this material on the environment.

Section 13: DISPOSAL CONSIDERATIONS

Product waste treatment: Dispose of product waste in accordance with applicable national, regional, or

local regulations.

Packaging waste treatment: Dispose of packaging waste in accordance with applicable national, regional, or

local regulations.

Precautions: No data available



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Section 14: TRANSPORT INFORMATION

DOT number: Not a dangerous goodUN number: Not a dangerous goodIMDG code: Not a marine pollutantIATA code: Not a dangerous good

Section 15: REGULATORY INFORMATION

U.S. federal and state regulations:

TSCA: CAS# 70024-90-7

California proposition 65: Not listed as one of California's known or potential carcinogens.

CERCLA/SARA: Not listed

EU labeling: EC #247-272-6

Section 16: OTHER INFORMATION

The information and recommendations in this Safety Data Sheet are believed to be accurate as of the date of issue. Nothing herein shall be deemed to create a warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this data to formulate the necessary safety precautions, as well as to decide the suitablity of the material or product for any particular purpose. This product is intended for use only by persons having necessary technical skills and facilities for its proper handling. Since the conditions and manner are outside of the control of Cellular Technology Limited (CTL), CTL shall not be held liable for any damage or injury resulting from the use, misuse, or mishandling of the above product, or the information contained in this Safety Data Sheet.

Issued 12-01-15



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COATING ANTIBODY

Section 1: IDENTIFICATION

Product name: Coating Antibody (ImmunoSpot® Kit)

Product Description: A component of all human ImmunoSpot® Kits.

Company name: Cellular Technology Limited

20521 Chagrin Boulevard

Shaker Heights, OH 44122-5350 USA +1 216-791-5084 T • +1 216-751-1373 F

+1 888-791-4005 Toll Free US

kits@immunospot.com www.immunospot.com

Recommended usage: The **Coating Antibody** is used to capture cellular secretions from a PVDF membrane

in ELISPOT assays.

For laboratory research use only. Not for use in diagnostic or therapeutic procedures.

Emergency telephone: +1 216-791-5084; +1 888-791-4005 Toll Free US

Section 2: HAZARD(S) IDENTIFICATION

Classification: Solution containing 0.02% thimerosal, not considered hazardous at the concentration

level used.

GHS signal word: Not a hazardous mixture
Hazard statements: Not a hazardous mixture
Precautionary statements: Not a hazardous mixture
Response statements: Not a hazardous mixture

Risk phrases: Not a hazardous mixture

Safety phrases: S36/S37 – Wear suitable protective clothing and gloves.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINS	CAS NUMBER	EC NUMBER	CONTENT
Thimerosal	54-64-8	200-210-4	0.2%

Section 4: FIRST-AID MEASURES

Description of first aid measures:

Skin and eyes: In case of contact with eyes, wash or flush eyes as a precaution.

Inhalation: If inhaled, move to fresh air.

Ingestion: If ingested do not induce vomiting; rinse mouth with water.

Section 5: FIRE-FIGHTING MEASURES

Suitable extinguising media: Carbon dioxide extinguishing powder, dry chemicals, or water spray can be used for small

fires. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from

the substance or mixture: No further relevant information available.

Advice for firefighters: Wear self-contained breathing apparatus if necessary.



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COATING ANTIBODY

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use proper personal protective equipment, avoid breathing vapors, mist, gas, or dust.

Environmental precautions: Avoid run-off to waterways and sewers.

Containment/ For spills and leaks, ventilate area of leak or spill. Absorb spill using an absorbent, **clean-up measures:** noncombustable material and dispose of collected material according to local and

regional regulations.

Section 7: HANDLING AND STORAGE

Precautions for Use only with adequate ventilation. **safe handling:** Wear chemical-resistant gloves.

Conditions for safe storage: Store refrigerated at 4°C

Incompatible materials: N/A

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

PEL: This product does not contain any ingredients listed on OSHA PEL Threshold Limit Values.

Personal protective

equipment: Wear chemical-resistant gloves.



General protective Handle in accordance with good industrial hygiene and safety practice.

hygiene considerations: Wash hands thoroughly with soap and water after handling and before eating or drinking.

Safety shower and eye wash should be available and close to work areas.

Environmental Follow best practice for site management and disposal of waste.

exposure controls: Avoid release into the environment.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colorless liquid	Vapor pressure	Not available
Odor	Odorless	Vapor density	Not available
Odor threshold	Not available	Relative density	Not available
рН	Not available	Solubility	Complete
Melting point	Not available	Partition coefficeient	Not available
Freezing point	Not available	Auto-ignition temperature	Not available
Initial boiling point and range	Not available	Decomposition temperature	Not available
Flash point	Not available	Evaporation rate	Not available
Flammability (solid, gas)	Not available	Viscosity	Not available
Upper/lower flammability or explosive limits	Not available		



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COATING ANTIBODY

Section 10: STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous

reactions: No data available

Conditions to avoid: No data available Incompatible materials: No data available

Hazardous

decomposition products: None

Section 11: TOXICOLOGICAL INFORMATION

Routes of entry/exposure: Skin, eyes, ingestion

Reproductive toxicity: No data available

Acute toxicity: Oral Rat, LD50: 75mg/kg

Acute effects on skin: May cause skin irritation

Chronic effects on skin: No data available

Acute effects on eyes: May cause eye irritation

Chronic effects on eyes: No data available

Carcinogenicity: No data available

Germ cell mutagenicity: No data available

Symptoms of

chemical exposure: None known

Section 12: ECOLOGICAL INFORMATION

Toxicity: No data available

Persistance and

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available on the adverse effects of this material on the environment.

Section 13: DISPOSAL CONSIDERATIONS

Product waste treatment: Dispose of product waste in accordance with applicable national, regional, or

local regulations.

Packaging waste treatment: Dispose of packaging waste in accordance with applicable national, regional, or

local regulations.

Precautions: No data available



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COATING ANTIBODY

Section 14: TRANSPORT INFORMATION

DOT number: Not a dangerous goodUN number: Not a dangerous goodIMDG code: Not a marine pollutantIATA code: Not a dangerous good

Section 15: REGULATORY INFORMATION

U.S. Federal and State Regulations:

TSCA: CAS# 54-64-8

California proposition 65: Not listed as one of California's known or potential carcinogens.

CERCLA/SARA: Not listed

EU labeling: EC #200-210-4

Section 16: OTHER INFORMATION

The information and recommendations in this Safety Data Sheet are believed to be accurate as of the date of issue. Nothing herein shall be deemed to create a warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this data to formulate the necessary safety precautions, as well as to decide the suitablity of the material or product for any particular purpose. This product is intended for use only by persons having necessary technical skills and facilities for its proper handling. Since the conditions and manner are outside of the control of Cellular Technology Limited (CTL), CTL shall not be held liable for any damage or injury resulting from the use, misuse, or mishandling of the above product, or the information contained in this Safety Data Sheet.

Issued 12-01-15



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DETECTION ANTIBODY

Section 1: IDENTIFICATION

Product name: Detection Antibody (ImmunoSpot® Kit)

Product description: Any Biotinylated or FITC-conjugated component used in any species of ImmunoSpot® Kits.

Company name: Cellular Technology Limited

20521 Chagrin Boulevard

Shaker Heights, OH 44122-5350 USA +1 216-791-5084 T • +1 216-751-1373 F

+1 888-791-4005 Toll Free US

kits@immunospot.com www.immunospot.com

Recommended usage: Detection Antibodies are used to detect cellular secretions in ELISPOT assays.

For laboratory research use only. Not for use in diagnostic or therapeutic procedures.

Emergency telephone: +1 216-791-5084; +1 888-791-4005 Toll Free US

Section 2: HAZARD(S) IDENTIFICATION

Classification: Solution containing between 0.09% sodium azide and 1% BSA as a carrier protein.

Neither are considered hazardous at the concentration level used.

GHS signal word: Not a hazardous mixture
Hazard statements: Not a hazardous mixture
Precautionary statements: Not a hazardous mixture
Response statements: Not a hazardous mixture

Risk phrases: Not a hazardous mixture

Safety phrases: \$36/\$37 – Wear suitable protective clothing and gloves.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINS	CAS NUMBER	EC NUMBER	CONTENT
Sodium Azide	26628-22-8	247-852-1	0.09%
BSA	9048-46-8	232-936-2	0.2-1.0%

Section 4: FIRST-AID MEASURES

Description of first aid measures:

Skin and eyes: In case of contact with eyes, wash or flush eyes as a precaution.

Inhalation: If inhaled, move to fresh air.

Ingestion: If ingested do not induce vomiting; rinse mouth with water.

Section 5: FIRE-FIGHTING MEASURES

Suitable extinguising media: Carbon dioxide extinguishing powder, dry chemicals, or water spray can be used for small

fires. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from

the substance or mixture: No further relevant information available.

Advice for firefighters: Wear self-contained breathing apparatus if necessary.



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DETECTION ANTIBODY

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use proper personal protective equipment, avoid breathing vapors, mist, gas, or dust.

Environmental precautions: No precautions required

Containment/ For spills and leaks, ventilate area of leak or spill. Absorb spill using an absorbent, **clean-up measures:** noncombustable material and dispose of collected material according to local and

regional regulations.

Section 7: HANDLING AND STORAGE

Precautions for Use only with adequate ventilation. **safe handling:** Wear chemical-resistant gloves.

Conditions for safe storage: Store refrigerated at 4°C **Incompatible materials:** Strong oxidizing agents

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

PEL: This product does not contain any ingredients listed on OSHA PEL Threshold Limit Values.

Personal protective

equipment: Wear chemical-resistant gloves



General protective Handle in accordance with good industrial hygiene and safety practice.

hygiene considerations: Wash hands thoroughly with soap and water after handling and before eating or drinking.

Safety shower and eye wash should be available and close to work areas.

Environmental

exposure controls: Follow best practice for site management and disposal of waste.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colorless liquid	Vapor pressure	Not available
Odor	Odorless	Vapor density	Not available
Odor threshold	Not available	Relative density	Not available
рН	Not available	Solubility	Complete
Melting point	Not available	Partition coefficeient	Not available
Freezing point	Not available	Auto-ignition temperature	Not available
Initial boiling point and range	Not available	Decomposition temperature	Not available
Flash point	Not available	Evaporation rate	Not available
Flammability (solid, gas)	Not available	Viscosity	Not available
Upper/lower flammability or explosive limits	Not available		



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DETECTION ANTIBODY

Section 10: STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous

reactions: No data available

Conditions to avoid: No data available

Incompatible materials: Strong oxidizing agents

Hazardous

decomposition products: None

Section 11: TOXICOLOGICAL INFORMATION

Routes of entry/exposure: Skin, eyes, ingestion

Reproductive toxicity: No data available

Acute toxicity: Sodium Azide: Oral Rat, LD50: 27mg/kg

Acute effects on skin: May cause skin irritation

Chronic effects on skin: No data available

Acute effects on eyes: May cause eye irritation

Chronic effects on eyes: No data available

Carcinogenicity: No data available

Germ cell mutagenicity: No data available

Symptoms of

chemical exposure: None known

Section 12: ECOLOGICAL INFORMATION

Toxicity: No data available

Persistance and

biodegradability: No data available **Bioaccumulative potential:** No data available

Mobility in soil: No data available

Other adverse effects: No data available on the adverse effects of this material on the environment.

Section 13: DISPOSAL CONSIDERATIONS

Product waste treatment: Dispose of product waste in accordance with applicable national, regional, or

local regulations.

Packaging waste treatment: Dispose of packaging waste in accordance with applicable national, regional, or

local regulations.

Precautions: No data available



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DETECTION ANTIBODY

Section 14: TRANSPORT INFORMATION

DOT number: Not a dangerous goodUN number: Not a dangerous goodIMDG code: Not a marine pollutantIATA code: Not a dangerous good

Section 15: REGULATORY INFORMATION

U.S. Federal and State Regulations:

TSCA: CAS# 26628-22-8, Sodium Azide

CAS# 9048-46-8, BSA

California proposition 65: Not listed as one of California's known or potential carcinogens.

CERCLA/SARA: Not listed

EU labeling: EC #247-852-1, Sodium Azide

EC #232-936-2, BSA

Section 16: OTHER INFORMATION

The information and recommendations in this Safety Data Sheet are believed to be accurate as of the date of issue. Nothing herein shall be deemed to create a warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this data to formulate the necessary safety precautions, as well as to decide the suitablity of the material or product for any particular purpose. This product is intended for use only by persons having necessary technical skills and facilities for its proper handling. Since the conditions and manner are outside of the control of Cellular Technology Limited (CTL), CTL shall not be held liable for any damage or injury resulting from the use, misuse, or mishandling of the above product, or the information contained in this Safety Data Sheet.

Issued 12-01-15



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TERTIARY REAGENT

Section 1: IDENTIFICATION

Product name: Tertiary Reagent (ImmunoSpot® Kit)

Product description: CTL-Strep-Red[™] and CTL-Strep-Blue[™] are components used in any species of multicolor

fluorescent ImmunoSpot® Kits

Company name: Cellular Technology Limited

20521 Chagrin Boulevard

Shaker Heights, OH 44122-5350 USA +1 216-791-5084 T • +1 216-751-1373 F

+1 888-791-4005 Toll Free US

kits@immunospot.com www.immunospot.com

Recommended usage: Tertiary Reagents are used to detect cellular secretions in ELISPOT assays.

For laboratory research use only. Not for use in diagnostic or therapeutic procedures.

Emergency telephone: +1 216-791-5084; +1 888-791-4005 Toll Free US

Section 2: HAZARD(S) IDENTIFICATION

Classification: Solution containing between 0.09% sodium azide; not considered hazardous at the

concentration level used.

GHS signal word: Not a hazardous mixture
Hazard statements: Not a hazardous mixture
Precautionary statements: Not a hazardous mixture
Response statements: Not a hazardous mixture

Risk phrases: Not a hazardous mixture

Safety phrases: S36/S37 – Wear suitable protective clothing and gloves.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINS	CAS NUMBER	EC NUMBER	CONTENT
Sodium Azide	26628-22-8	247-852-1	0.09%

Section 4: FIRST-AID MEASURES

Description of first aid measures:

Skin and eyes: In case of contact with eyes, wash or flush eyes as a precaution.

Inhalation: If inhaled, move to fresh air.

Ingestion: If ingested do not induce vomiting; rinse mouth with water.

Section 5: FIRE-FIGHTING MEASURES

Suitable extinguising media: Carbon dioxide extinguishing powder, dry chemicals, or water spray can be used for small

fires. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from

the substance or mixture: No further relevant information available.

Advice for firefighters: Wear self-contained breathing apparatus if necessary.



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TERTIARY REAGENT

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use proper personal protective equipment, avoid breathing vapors, mist, gas, or dust.

Environmental precautions: No precautions required

Containment/ For spills and leaks, ventilate area of leak or spill. Absorb spill using an absorbent, **clean-up measures:** noncombustable material and dispose of collected material according to local and

regional regulations.

Section 7: HANDLING AND STORAGE

Precautions for

safe handling: Use only with adequate ventilation. Wear chemical-resistant gloves.

Conditions for safe storage: Store refrigerated at 4°C **Incompatible materials:** Strong oxidizing agents

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

PEL: This product does not contain any ingredients listed on OSHA PEL Threshold Limit Values

Personal protective

equipment: Wear chemical-resistant gloves



General protective Handle in accordance with good industrial hygiene and safety practice.

hygiene considerations: Wash hands thoroughly with soap and water after handling and before eating or drinking.

Safety shower and eye wash should be available and close to work areas.

Environmental

exposure controls: Follow best practice for site management and disposal of waste.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colorless liquid	Vapor pressure	Not available
Odor	Odorless	Vapor density	Not available
Odor threshold	Not available	Relative density	Not available
рН	Not available	Solubility	Complete
Melting point	Not available	Partition coefficeient	Not available
Freezing point	Not available	Auto-ignition temperature	Not available
Initial boiling point and range	Not available	Decomposition temperature	Not available
Flash point	Not available	Evaporation rate	Not available
Flammability (solid, gas)	Not available	Viscosity	Not available
Upper/lower flammability or explosive limits	Not available		



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TERTIARY REAGENT

Section 10: STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous

reactions: No data available

Conditions to avoid: No data available

Incompatible materials: Strong oxidizing agents

Hazardous

decomposition products: None

Section 11: TOXICOLOGICAL INFORMATION

Routes of entry/exposure: Skin, eyes, ingestion

Reproductive toxicity: No data available

Acute toxicity: Oral Rat, LD50: 27mg/kg

Acute effects on skin: May cause skin irritation

Chronic effects on skin: No data available

Acute effects on eyes: May cause eye irritation

Chronic effects on eyes: No data available

Carcinogenicity: No data available

Germ cell mutagenicity: No data available

Symptoms of

chemical exposure: None known

Section 12: ECOLOGICAL INFORMATION

Toxicity: No data available

Persistance and

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available on the adverse effects of this material on the environment.

Section 13: DISPOSAL CONSIDERATIONS

Product waste treatment: Dispose of product waste in accordance with applicable national, regional, or

local regulations.

Packaging waste treatment: Dispose of packaging waste in accordance with applicable national, regional, or

local regulations.

Precautions: No data available



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TERTIARY REAGENT

Section 14: TRANSPORT INFORMATION

DOT number: Not a dangerous goodUN number: Not a dangerous goodIMDG code: Not a marine pollutantIATA code: Not a dangerous good

Section 15: REGULATORY INFORMATION

U.S. federal and state regulations:

TSCA: CAS# 26628-22-8

California proposition 65: Not listed as one of California's known or potential carcinogens.

CERCLA/SARA: Not listed

EU labeling: EC# 247-852-1

Section 16: OTHER INFORMATION

The information and recommendations in this Safety Data Sheet are believed to be accurate as of the date of issue. Nothing herein shall be deemed to create a warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this data to formulate the necessary safety precautions, as well as to decide the suitablity of the material or product for any particular purpose. This product is intended for use only by persons having necessary technical skills and facilities for its proper handling. Since the conditions and manner are outside of the control of Cellular Technology Limited (CTL), CTL shall not be held liable for any damage or injury resulting from the use, misuse, or mishandling of the above product, or the information contained in this Safety Data Sheet.

Issued 12-01-15



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DILUENT C

Section 1: IDENTIFICATION

Product name: Diluent C (ImmunoSpot® Kit)

Product description: A component used in all ImmunoSpot® Kits.

Company name: Cellular Technology Limited

20521 Chagrin Boulevard

Shaker Heights, OH 44122-5350 USA +1 216-791-5084 T • +1 216-751-1373 F

+1 888-791-4005 Toll Free US kits@immunospot.com

www.immunospot.com

Recommended usage: Diluent C is used to detect cellular secretions in ELISPOT assays.

For laboratory research use only. Not for use in diagnostic or therapeutic procedures.

Emergency telephone: +1 216-791-5084; +1 888-791-4005 Toll Free US

Section 2: HAZARD(S) IDENTIFICATION

Classification: Solution containing 1% BSA as a carrier protein; not considered hazardous at the

concentration level used.

GHS signal word: Not a hazardous mixture

Hazard statements: Not a hazardous mixture

Precautionary statements: Not a hazardous mixture

Response statements: Not a hazardous mixture

Risk phrases: Not a hazardous mixture

Safety phrases: S36/S37 – Wear suitable protective clothing and gloves.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINS	CAS NUMBER	EC NUMBER	CONTENT
BSA	9048-46-8	232-936-2	1.0%

Section 4: FIRST-AID MEASURES

Description of first aid measures:

Skin and eyes: In case of contact with eyes, wash or flush eyes as a precaution.

Inhalation: If inhaled, move to fresh air.

Ingestion: If ingested do not induce vomiting; rinse mouth with water.

Section 5: FIRE-FIGHTING MEASURES

Suitable extinguising media: Carbon dioxide extinguishing powder, dry chemicals, or water spray can be used for small

fires. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from

the substance or mixture: No further relevant information available.

Advice for firefighters: Wear self-contained breathing apparatus if necessary.



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DILUENT C

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use proper personal protective equipment, avoid breathing vapors, mist, gas, or dust.

Environmental precautions: No precautions required

Containment/ For spills and leaks, ventilate area of leak or spill. Absorb spill using an absorbent, **clean-up measures:** noncombustable material and dispose of collected material according to local and

regional regulations.

Section 7: HANDLING AND STORAGE

Precautions for

safe handling: Use only with adequate ventilation. Wear chemical-resistant gloves.

Conditions for safe storage: Store refrigerated at 4°C

Incompatible materials: N/A

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

PEL: This product does not contain any ingredients listed on OSHA PEL Threshold Limit Values.

Personal protective

equipment: Wear chemical-resistant gloves



General protective Handle in accordance with good industrial hygiene and safety practice.

hygiene considerations: Wash hands thoroughly with soap and water after handling and before eating or drinking.

Safety shower and eye wash should be available and close to work areas.

Environmental

exposure controls: Follow best practice for site management and disposal of waste.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colorless liquid	Vapor pressure	Not available
Odor	Odorless	Vapor density	Not available
Odor threshold	Not available	Relative density	Not available
рН	Not available	Solubility	Complete
Melting point	Not available	Partition coefficeient	Not available
Freezing point	Not available	Auto-ignition temperature	Not available
Initial boiling point and range	Not available	Decomposition temperature	Not available
Flash point	Not available	Evaporation rate	Not available
Flammability (solid, gas)	Not available	Viscosity	Not available
Upper/lower flammability or explosive limits	Not available		



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

DILUENT C

Section 10: STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous

reactions: No data available

Conditions to avoid: No data available Incompatible materials: No data available

Hazardous

decomposition products: None

Section 11: TOXICOLOGICAL INFORMATION

Routes of entry/exposure: Skin, eyes, ingestion

Reproductive toxicity: No data available

Acute toxicity: No data available

Acute effects on skin: May cause skin irritation

Chronic effects on skin: No data available

Acute effects on eyes: May cause eye irritation

Chronic effects on eyes: No data available

Carcinogenicity: No data available

Germ cell mutagenicity: No data available

Symptoms of

chemical exposure: None known

Section 12: ECOLOGICAL INFORMATION

Toxicity: No data available

Persistance and

biodegradability: No data available **Bioaccumulative potential:** No data available

Mobility in soil: No data available

Other adverse effects: No data available on the adverse effects of this material on the environment.

Section 13: DISPOSAL CONSIDERATIONS

Product waste treatment: Dispose of product waste in accordance with applicable national, regional, or

local regulations.

Packaging waste treatment: Dispose of packaging waste in accordance with applicable national, regional, or

local regulations.

Precautions: No data available



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DILUENT C

Section 14: TRANSPORT INFORMATION

DOT number: Not a dangerous goodUN number: Not a dangerous goodIMDG code: Not a marine pollutantIATA code: Not a dangerous good

Section 15: REGULATORY INFORMATION

U.S. federal and state regulations:

TSCA: CAS# 9048-46-8

California proposition 65: Not listed as one of California's known or potential carcinogens.

CERCLA/SARA: Not listed

EU labeling: EC# 232-936-2

Section 16: OTHER INFORMATION

The information and recommendations in this Safety Data Sheet are believed to be accurate as of the date of issue. Nothing herein shall be deemed to create a warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this data to formulate the necessary safety precautions, as well as to decide the suitablity of the material or product for any particular purpose. This product is intended for use only by persons having necessary technical skills and facilities for its proper handling. Since the conditions and manner are outside of the control of Cellular Technology Limited (CTL), CTL shall not be held liable for any damage or injury resulting from the use, misuse, or mishandling of the above product, or the information contained in this Safety Data Sheet.

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DILUENT B

Section 1: IDENTIFICATION

Product name: Diluent B (ImmunoSpot® Kit)

Product Description: A component used in all ImmunoSpot® Kits.

Company name: Cellular Technology Limited

20521 Chagrin Boulevard

Shaker Heights, OH 44122-5350 USA +1 216-791-5084 T • +1 216-751-1373 F

+1 888-791-4005 Toll Free US

kits@immunospot.com www.immunospot.com

Recommended usage: Diluent B is used to detect cellular secretions in ELISPOT assays.

For laboratory research use only. Not for use in diagnostic or therapeutic procedures.

Emergency telephone: +1 216-791-5084; +1 888-791-4005 Toll Free US

Section 2: HAZARD(S) IDENTIFICATION

Classification: Solution containing between 0.05% Tween 20 and 1% BSA as a carrier protein; neither of

which are considered hazardous at the concentration level used.

GHS signal word: Not a hazardous mixture Hazard statements: Not a hazardous mixture **Precautionary statements:** Not a hazardous mixture **Response statements:** Not a hazardous mixture

Risk phrases: Not a hazardous mixture

Safety phrases: S36/S37 – Wear suitable protective clothing and gloves.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINS	CAS NUMBER	EC NUMBER	CONTENT
Tween 20	9005-64-5	500-018-3	0.05%
BSA	9048-46-8	232-936-2	1.0%

Section 4: FIRST-AID MEASURES

Description of first aid measures:

Skin and eyes: In case of contact with eyes, wash or flush eyes as a precaution.

Inhalation: If inhaled, move to fresh air.

Ingestion: If ingested do not induce vomiting; rinse mouth with water.

Section 5: FIRE-FIGHTING MEASURES

Suitable extinguising media: Carbon dioxide extinguishing powder, dry chemicals, or water spray can be used for small

fires. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from

the substance or mixture: Carbon oxides

Advice for firefighters: Wear self-contained breathing apparatus if necessary.



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DILUENT B

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use proper personal protective equipment, avoid breathing vapors, mist, gas, or dust.

Environmental precautions: No precautions required

Containment/ For spills and leaks, ventilate area of leak or spill. Absorb spill using an absorbent, **clean-up measures:** noncombustable material and dispose of collected material according to local and

regional regulations.

Section 7: HANDLING AND STORAGE

Precautions for

safe handling: Use only with adequate ventilation. Wear chemical-resistant gloves.

Conditions for safe storage: Store refrigerated at 4°C **Incompatible materials:** Strong oxidizing agents

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

PEL: This product does not contain any ingredients listed on OSHA PEL Threshold Limit Values.

Personal protective

equipment: Wear chemical-resistant gloves



General protective Handle in accordance with good industrial hygiene and safety practice.

hygiene considerations: Wash hands thoroughly with soap and water after handling and before eating or drinking.

Safety shower and eye wash should be available and close to work areas.

Environmental Follow best practice for site management and disposal of waste.

exposure controls: Avoid release into drains and the environment.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colorless liquid	Vapor pressure	Not available
Odor	Odorless	Vapor density	Not available
Odor threshold	Not available	Relative density	Not available
рН	Not available	Solubility	Complete
Melting point	Not available	Partition coefficeient	Not available
Freezing point	Not available	Auto-ignition temperature	Not available
Initial boiling point and range	Not available	Decomposition temperature	Not available
Flash point	Not available	Evaporation rate	Not available
Flammability (solid, gas)	Not available	Viscosity	Not available
Upper/lower flammability or explosive limits	Not available		



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DILUENT B

Section 10: STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous

reactions: No data available

Conditions to avoid: No data available

Incompatible materials: Strong oxidizing agents

Hazardous

decomposition products: None

Section 11: TOXICOLOGICAL INFORMATION

Routes of entry/exposure: Skin, eyes, ingestion

Reproductive toxicity: No data available

Acute toxicity: Oral Rat, LD50, 40: 554mg/kg

Acute effects on skin: May cause skin irritation

Chronic effects on skin: No data available

Acute effects on eyes: May cause eye irritation

Chronic effects on eyes: No data available

Carcinogenicity: No data available

Germ cell mutagenicity: No data available

Symptoms of

chemical exposure: None known

Section 12: ECOLOGICAL INFORMATION

Toxicity: No data available

Persistance and

biodegradability: No data availableBioaccumulative potential: No data availableMobility in soil: No data available

Other adverse effects: No data available on the adverse effects of this material on the environment.

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local regulations.

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Precautions: No data available



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DILUENT B

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EC #232-936-2, BSA

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Issued 12-01-15