

Product and Company Information
Product Name: pDUO2-<Gene>

Cat. Code: pduo2-<gene>

Company identification: InvivoGen USA, 3950 Sorrento Valley Blvd, Suite 100
San Diego, California 92121, USA
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 InvivoGen Europe, 5 rue Jean Rodier
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 InvivoGen Hong Kong, Unit 709A, Bio-Informatics Center
2 Science Park West Avenue, Hong Kong Science Park
Shatin, Hong Kong
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Emergency number: ORFILA (INRS): +33 (0)1 45 42 59 59

Disclaimer: All InvivoGen products are supplied for research and laboratory use only. Not for drug, household or other uses.

This product contains multiple components, which are listed below. An SDS for each component is provided.

Ingredient	CAS Number	EC Number	GHS Classification	Pictogram
Plasmid DNA	Not available	Not available	Not dangerous	None
Fast-Media® Hygro Agar (Luria Broth based agar selective medium) contains Hygromycin B CAS no. 31282-04-9	Not available	Not available	Acute toxicity, Inhalation (Cat. 2) Acute toxicity, Dermal (Cat.2) Acute toxicity, Oral (Cat. 2) Serious eye damage (Cat. 1)	
Fast-Media® Hygro TB (Terrific Broth based selective medium) contains Hygromycin B CAS no. 31282-04-9	Not available	Not available	Acute toxicity, Inhalation (Cat. 2) Acute toxicity, Dermal (Cat.2) Acute toxicity, Oral (Cat. 2) Serious eye damage (Cat. 1)	

Section 1 - Product and Company Information

Product Name:	pDUO2-<Gene>
Cat. Code:	pduo2-<gene>
Company identification:	InvivoGen USA, 3950 Sorrento Valley Blvd, Suite 100 San Diego, California 92121, USA (+1) 888 457 5873 InvivoGen Europe, 5 rue Jean Rodier 31400 Toulouse, FRANCE +33 (0) 5 62 71 69 39 InvivoGen Hong Kong, Unit 709A, Bio-Informatics Center 2 Science Park West Avenue, Hong Kong Science Park Shatin, Hong Kong +852 3622 3480
Emergency number:	ORFILA (INRS): +33 (0)1 45 42 59 59

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Section 2 – Hazards Identification

Emergency Overview:

OSHA Hazards

No known OSHA hazards

2.1 Classification of substance

Not a hazardous substance or mixture according to EC-Directives 67/548/EEC or 1999/45/EC.

Not a hazardous substance or mixture according to CLP-Regulation (EC) No. 1272/2008.

2.2 Label elements

The product does not need to be labeled in accordance with EC-Directives 67/548/EEC, to CLP-Regulation (EC) No. 1272/2008 or respective national laws.

2.3 Other hazards - none

Section 3 – Composition/Information on Ingredient

Synonyms: Plasmid DNA

CAS number: Not available

Section 4 – First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

After skin contact: Immediately wash skin with soap and plenty of water. Consult a physician.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.

After inhalation: Remove to fresh air. If not breathing give artificial respiration. Consult a physician.

After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

Section 5 – Fire Fighting Measures

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Specific hazards arising from the chemical: No data available

Special Firefighting Procedures: Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measures

Personal precautions: Wear protective equipment. Keep unprotected persons away. Avoid dust formation.

Method for Cleaning Up: Sweep up and place in closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area and wash spill site after material clean-up is complete.

Section 7 – Handling and Storage

Handling: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

User Exposure: Avoid inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or apron).

Storage: Store at -20 °C.

Section 8 – Exposure Controls / PPE

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene measures

General industrial hygiene practice.

Section 9 – Physical / Chemical Properties

Appearance

Physical state: Solid

Color: White

Safety Data

Odor: No data available

Odor threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability: No data available

Upper/lower flammability or explosive limits: No data available

Vapor pressure: No data available

Relative density: No data available

Solubility: No data available

Partition coefficient: n-octanol/water: No data available

Autoignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

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: No data available

Section 11 – Toxicological Information

Acute toxicity:

Oral LD50: No data available

Inhalation LC50: No data available

Dermal LD50: No data available

Other information on acute toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Additional information: No data available

Section 12 – Ecological Information

Ecotoxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Section 13 – Disposal Considerations

Product: Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

Contaminated Packaging: Dispose of as unused product.

Section 14 – Transport Information

ADR/RID: Not dangerous goods

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Section 15 – Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

no data available

Section 16 – Other Information

The information contained in this SDS relates only to the material(s) designated and does not relate to use(s) in combination with any other material, process(es) and/or chemical reaction(s). InvivoGen provides this information in good faith and is based on our present knowledge. This SDS is provided without warranty of any kind. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed.

Section 1 - Product and Company Information

Product Name:	Fast-Media® Hygro Agar
Cat. Code:	fas-hg-s
	InvivoGen USA, 3950 Sorrento Valley Blvd, Suite 100 San Diego, California 92121, USA (+1) 888 457 5873
Company identification:	InvivoGen Europe, 5 rue Jean Rodier 31400 Toulouse, FRANCE +33 (0) 5 62 71 69 39
	InvivoGen Hong Kong, Unit 709A, Bio-Informatics Center 2 Science Park West Avenue, Hong Kong Science Park Shatin, Hong Kong +852 3622 3480
Emergency number:	ORFILA (INRS): +33 (0)1 45 42 59 59

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Section 2 – Hazards Identification

Emergency Overview:

OSHA Hazards

Highly toxic by inhalation, ingestion or skin absorption. Risk of serious damage to eyes. Target organ effect.
Target organs: Ears.

GHS classification

Acute toxicity, Inhalation (Category 2)
Acute toxicity, Dermal (Category 2)
Acute toxicity, Oral (Category 2)
Serious eye damage (Category 1)



Signal word

Danger

Hazard statement

H300 Fatal if swallowed.
H310 Fatal in contact with skin.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.
P284 Wear respiratory protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.

Section 3 – Composition/Information on Ingredient

Synonyms: LB based agar medium supplemented with Hygromycin B

Ingredient	CAS Number	EC Number
Hygromycin B	31282-04-9	Not available
Agar	9002-18-0	232-658-1

Section 4 – First Aid Measures

General advice: Consult a physician. Show this material safety data sheet to the doctor in attendance.

After skin contact: Immediately wash skin with soap and plenty of water. Consult a physician.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.

After inhalation: Remove to fresh air. If not breathing give artificial respiration. Consult a physician.

After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

Section 5 – Fire Fighting Measures

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Specific hazards arising from the chemical: No data available

Special Firefighting Procedures: Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measures

Personal precautions: Wear protective equipment. Keep unprotected persons away. Avoid dust formation.

Method for Cleaning Up: Sweep up and place in closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area and wash spill site after material clean-up is complete.

Section 7 – Handling and Storage

Handling: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

User Exposure: Avoid inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or apron).

Storage: Store at room temperature.

Section 8 – Exposure Controls / PPE

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Section 9 – Physical / Chemical Properties**Appearance**

Physical state: Powder

Color: Beige

Safety Data

Odor: No data available

Odor threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability: No data available

Upper/lower flammability or explosive limits: No data available

Vapor pressure: No data available

Relative density: No data available

Solubility: No data available

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

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, strong bases

Hazardous decomposition products: No data available

Section 11 – Toxicological Information**Acute toxicity:**

LD50 Intraperitoneal: 63 mg/kg rat (hygromycin B)

Inhalation LC50: No data available

Dermal LD50: No data available

Other information on acute toxicity: LD50 Intravenous: 6 mg/kg mouse (hygromycin B)

Skin corrosion/irritation: No data available

Serious eye damage/irritation: Causes serious eye damage (hygromycin B)

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Additional information: No data available

Section 12 – Ecological Information

Ecotoxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Section 13 – Disposal Considerations

Product: Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

Contaminated Packaging: Dispose of as unused product.

Section 14 – Transport Information

ARD/RID: Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Hygromycin B) UN#: 2811 Class: 6.1
Packing group: I Marine pollutant: No Poison Inhalation Hazard: No

DOT (US): Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Hygromycin B) UN#: 2811 Class: 6.1
Packing group: I Marine pollutant: No Poison Inhalation Hazard: No

IMDG: UN#: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Hygromycin B) Marine pollutant: No

IATA: UN#: 2811 Class: 6.1 Packing group: I Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Hygromycin B)

Section 15 – Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

No data available

Section 16 – Other Information

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Section 1 - Product and Company Information

Product Name:	Fast-Media® Hygro TB
Cat. Code:	fas-hg-1
	InvivoGen USA, 3950 Sorrento Valley Blvd, Suite 100 San Diego, California 92121, USA (+1) 888 457 5873
Company identification:	InvivoGen Europe, 5 rue Jean Rodier 31400 Toulouse, FRANCE +33 (0) 5 62 71 69 39
	InvivoGen Hong Kong, Unit 709A, Bio-Informatics Center 2 Science Park West Avenue, Hong Kong Science Park Shatin, Hong Kong +852 3622 3480
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Emergency Overview:

OSHA Hazards

Highly toxic by inhalation, ingestion or skin absorption. Risk of serious damage to eyes. Target organ effect.

Target organs: Ears.

GHS classification

Acute toxicity, Inhalation (Category 2)

Acute toxicity, Dermal (Category 2)

Acute toxicity, Oral (Category 2)

Serious eye damage (Category 1)



Signal word

Danger

Hazard statement

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

P284 Wear respiratory protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.

Section 3 – Composition/Information on Ingredient

Synonyms: *E.coli* selection medium containing hygromycin B

CAS number: 31282-04-9 (Hygromycin B)

Section 4 – First Aid Measures

General advice: Consult a physician. Show this material safety data sheet to the doctor in attendance.

After skin contact: Immediately wash skin with soap and plenty of water. Consult a physician.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.

After inhalation: Remove to fresh air. If not breathing give artificial respiration. Consult a physician.

After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

Section 5 – Fire Fighting Measures

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Specific hazards arising from the chemical: No data available

Special Firefighting Procedures: Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measures

Personal precautions: Wear protective equipment. Keep unprotected persons away. Avoid dust formation.

Method for Cleaning Up: Sweep up and place in closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area and wash spill site after material clean-up is complete.

Section 7 – Handling and Storage

Handling: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

User Exposure: Avoid inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or apron).

Storage: Store at room temperature.

Section 8 – Exposure Controls / PPE

Personal protective equipment

Respiratory protection

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Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Section 9 – Physical / Chemical Properties

Appearance

Physical state: Powder

Color: Beige

Safety Data

Odor: No data available

Odor threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability: No data available

Upper/lower flammability or explosive limits: No data available

Vapor pressure: No data available

Relative density: No data available

Solubility: No data available

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

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, strong bases

Hazardous decomposition products: No data available

Section 11 – Toxicological Information

Acute toxicity:

LD50 Intraperitoneal: 63 mg/kg rat (hygromycin B)

Inhalation LC50: No data available

Dermal LD50: No data available

Other information on acute toxicity: LD50 Intravenous: 6 mg/kg mouse (hygromycin B)

Skin corrosion/irritation: No data available

Serious eye damage/irritation: Causes serious eye damage (hygromycin B)

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Additional information: No data available

Section 12 – Ecological Information

Ecotoxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Section 13 – Disposal Considerations

Product: Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

Contaminated Packaging: Dispose of as unused product.

Section 14 – Transport Information

ARD/RID: Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Hygromycin B) UN#: 2811 Class: 6.1

Packing group: I Marine pollutant: No Poison Inhalation Hazard: No

DOT (US): Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Hygromycin B) UN#: 2811 Class: 6.1

Packing group: I Marine pollutant: No Poison Inhalation Hazard: No

IMDG: UN#: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Hygromycin B) Marine pollutant: No

IATA: UN#: 2811 Class: 6.1 Packing group: I Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Hygromycin B)

Section 15 – Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

No data available

Section 16 – Other Information

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