SAFETY DATA SHEET



AdEasy XL Adenoviral Vector System Kit, Part Number 240010

Section 1. Identification

Product identifier : AdEasy XL Adenoviral Vector System Kit, Part Number 240010

Part no. (chemical kit) : 240010

Part no. : AD-293 Cell Line >1 x 10e6 Viable Cells 240085-41

pShuttle Vector 240006-51 pShuttle-CMV Vector 240007-51 pShuttle-CMV-lacZ Control Vector 240008-51 BJ5183-AD-1 electroporation competent 200157-41

cells

XL10-Gold Ultracompetent cells 200315-41
XL10-Gold 2-Mercaptoethanol 200314-43
pUC 18 DNA Control Plasmid 200231-42
Transformation Control 200157-42

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Analytical reagent.

AD-293 Cell Line >1 x 10e6 Viable Cells 1 ml

pShuttle Vector 0.02 ml (20 μ g 1 μ g/ μ l) pShuttle-CMV Vector 0.02 ml (20 μ g 1 μ g/ μ l) pShuttle-CMV-lacZ Control Vector 0.01 ml (10 μ g 1 μ g/ μ l)

BJ5183-AD-1 electroporation competent cells 0.5 ml XL10-Gold Ultracompetent cells 0.5 ml XL10-Gold 2-Mercaptoethanol 0.05 ml

pUC 18 DNA Control Plasmid 0.01 ml (0.1 ng/μl)
Transformation Control 0.01 ml (0.1 ng/μl 10 μl)

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd

679 Springvale Road

Mulgrave

Victoria 3170, Australia

1800 802 402

Emergency telephone number (with hours of

operation)

: CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

AD-293 Cell Line >1 x 10e6

Viable Cells

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

XL10-Gold Ultracompetent

cells

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

XL10-Gold

2-Mercaptoethanol

H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

H317 SKIN SENSITISATION - Category 1

H361 REPRODUCTIVE TOXICITY - Category 2

H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

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Section 2. Hazard(s) identification

BJ5183-AD-1

electroporation competent

cells

XL10-Gold Ultracompetent

cells

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.3%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5%

GHS label elements

Hazard pictograms

: XL10-Gold

2-Mercaptoethanol







Signal word

AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1

electroporation competent

XL10-Gold Ultracompetent

cells

XL10-Gold

2-Mercaptoethanol

pUC 18 DNA Control Plasmid No signal word. **Transformation Control**

Hazard statements

AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1 electroporation competent

XL10-Gold Ultracompetent

cells

XL10-Gold

2-Mercaptoethanol

WARNING

No signal word. No signal word.

No signal word.

No signal word.

WARNING **DANGER**

No signal word.

H320 - Causes eye irritation.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

H320 - Causes eye irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H361 - Suspected of damaging fertility or the unborn

H412 - Harmful to aquatic life with long lasting effects.

pUC 18 DNA Control Plasmid No known significant effects or critical hazards. No known significant effects or critical hazards.

Transformation Control

Precautionary statements

Prevention

AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1

electroporation competent

XL10-Gold Ultracompetent

cells

XL10-Gold

2-Mercaptoethanol

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing

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Section 2. Hazard(s) identification

and eye or face protection. P273 - Avoid release to the environment. pUC 18 DNA Control Plasmid Not applicable. **Transformation Control** Not applicable. AD-293 Cell Line >1 x 10e6 P305 + P351 + P338 - IF IN EYES: Rinse cautiously Response Viable Cells with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention. Not applicable. pShuttle Vector Not applicable. pShuttle-CMV Vector pShuttle-CMV-lacZ Control Not applicable. Vector BJ5183-AD-1 Not applicable. electroporation competent P305 + P351 + P338 - IF IN EYES: Rinse cautiously XL10-Gold Ultracompetent with water for several minutes. Remove contact cells lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention. XL10-Gold P305 + P351 + P338, P310 - IF IN EYES: Rinse 2-Mercaptoethanol cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. pUC 18 DNA Control Plasmid Not applicable. **Transformation Control** Not applicable. : AD-293 Cell Line >1 x 10e6 **Storage** Not applicable. Viable Cells pShuttle Vector Not applicable. pShuttle-CMV Vector Not applicable. pShuttle-CMV-lacZ Control Not applicable. Vector BJ5183-AD-1 Not applicable. electroporation competent XL10-Gold Ultracompetent Not applicable. cells XL10-Gold Not applicable. 2-Mercaptoethanol pUC 18 DNA Control Plasmid Not applicable. Transformation Control Not applicable. **Disposal** : AD-293 Cell Line >1 x 10e6 Not applicable. Viable Cells pShuttle Vector Not applicable. pShuttle-CMV Vector Not applicable. pShuttle-CMV-lacZ Control Not applicable. Vector Not applicable.

BJ5183-AD-1 electroporation competent

XL10-Gold Ultracompetent

cells

XL10-Gold 2-Mercaptoethanol

international regulations. pUC 18 DNA Control Plasmid Not applicable.

Transformation Control Not applicable.

Supplemental label elements

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Not applicable.

P501 - Dispose of contents and container in

accordance with all local, regional, national and

Section 2. Hazard(s) identification

Additional warning phrases

AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector Not applicable. pShuttle-CMV Vector Not applicable. pShuttle-CMV-lacZ Control Not applicable.

Not applicable.

Not applicable.

None known.

Mixture

Vector

BJ5183-AD-1 Not applicable.

electroporation competent

cells

XL10-Gold Ultracompetent

cells

XL10-Gold Not applicable.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid Not applicable. Transformation Control Not applicable.

Other hazards which do not result in classification

AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector None known. pShuttle-CMV Vector None known. pShuttle-CMV-lacZ Control None known.

Vector

BJ5183-AD-1 None known.

electroporation competent

cells

XL10-Gold Ultracompetent None known.

cells

XL10-Gold None known.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid None known. Transformation Control None known.

Additional information

AD-293 Cell Line >1 x 10e6 Viable Cells Biohazard - The product contains Adenovirus considered as a Biosafety Level 2 substance.

Section 3. Composition and ingredient information

Substance/mixture

AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector Mixture
pShuttle-CMV Vector Mixture
pShuttle-CMV-lacZ Control Mixture

Vector

BJ5183-AD-1 Mixture

electroporation competent

cells

XL10-Gold Ultracompetent Mixture

cells

XL10-Gold Mixture

2-Mercaptoethanol

pUC 18 DNA Control Plasmid Mixture Transformation Control Mixture

CAS number/other identifiers

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Section 3. Composition and ingredient information

| Ingredient name | % (w/w) | CAS number |
|---|-----------|------------|
| AD-293 Cell Line >1 x 10e6 Viable Cells | | |
| Dimethyl sulfoxide | ≥10 - ≤30 | 67-68-5 |
| BJ5183-AD-1 electroporation competent cells | | |
| Glycerol | <10 | 56-81-5 |
| XL10-Gold Ultracompetent cells | | |
| Glycerol | ≥10 - ≤30 | 56-81-5 |
| Dimethyl sulfoxide | ≤10 | 67-68-5 |
| Sucrose | ≤10 | 57-50-1 |
| XL10-Gold 2-Mercaptoethanol | | |
| 2-Mercaptoethanol | ≤5 | 60-24-2 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8.

| Section 4. Firs | t aid measures | |
|------------------------|--|---|
| Description of necessa | ry first aid measures | |
| Eye contact | : MD-293 Cell Line >1 x 10e6 Viable Cells | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention. |
| | pShuttle Vector | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | pShuttle-CMV Vector | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | pShuttle-CMV-lacZ Control Vector | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | BJ5183-AD-1 | Immediately flush eyes with plenty of water, |
| | electroporation competent cells | occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | XL10-Gold Ultracompetent cells | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention. |
| | XL10-Gold 2-Mercaptoethanol | Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and |

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lower eyelids. Check for and remove any contact

lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a

physician.

pUC 18 DNA Control Plasmid Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Transformation Control Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

Remove victim to fresh air and keep at rest in a

medical attention if irritation occurs.

AD-293 Cell Line >1 x 10e6 Inhalation

Viable Cells

position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person

may need to be kept under medical surveillance for 48 hours.

Remove victim to fresh air and keep at rest in a pShuttle Vector

position comfortable for breathing. Get medical

attention if symptoms occur.

pShuttle-CMV Vector Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

pShuttle-CMV-lacZ Control Remove victim to fresh air and keep at rest in a

Vector

BJ5183-AD-1

position comfortable for breathing. Get medical attention if symptoms occur.

electroporation competent

XL10-Gold Ultracompetent

cells

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

XL10-Gold

2-Mercaptoethanol

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or selfcontained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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pUC 18 DNA Control Plasmid Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Transformation Control Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Skin contact AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. pShuttle-CMV Vector Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

pShuttle-CMV-lacZ Control

Vector

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

BJ5183-AD-1 electroporation competent

XL10-Gold

2-Mercaptoethanol

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

XL10-Gold Ultracompetent cells

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing

before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and

water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

pUC 18 DNA Control Plasmid Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Transformation Control

AD-293 Cell Line >1 x 10e6 Viable Cells

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get

medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie,

belt or waistband.

pShuttle Vector Wash out mouth with water. If material has been

> swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical

personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give

Ingestion

pShuttle-CMV Vector

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pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation competent cells

XL10-Gold Ultracompetent cells

XL10-Gold 2-Mercaptoethanol

Transformation Control

small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. pUC 18 DNA Control Plasmid Wash out mouth with water. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical

personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contact

AD-293 Cell Line >1 x 10e6 Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Vector BJ5183-AD-1 Causes eye irritation.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

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Inhalation

electroporation competent

XL10-Gold Ultracompetent Causes eye irritation.

cells

XL10-Gold Causes serious eye damage.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid No known significant effects or critical hazards. Transformation Control No known significant effects or critical hazards.

: AD-293 Cell Line >1 x 10e6

No known significant effects or critical hazards.

Viable Cells pShuttle Vector pShuttle-CMV Vector

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1

electroporation competent

No known significant effects or critical hazards.

XL10-Gold Ultracompetent

No known significant effects or critical hazards.

cells

XL10-Gold No known significant effects or critical hazards.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid No known significant effects or critical hazards. **Transformation Control** No known significant effects or critical hazards.

Skin contact : AD-293 Cell Line >1 x 10e6

Viable Cells

No known significant effects or critical hazards. No known significant effects or critical hazards.

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

No known significant effects or critical hazards. No known significant effects or critical hazards.

Vector BJ5183-AD-1

No known significant effects or critical hazards.

electroporation competent

No known significant effects or critical hazards.

XL10-Gold Ultracompetent cells

XL10-Gold May cause an allergic skin reaction.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid No known significant effects or critical hazards. **Transformation Control** No known significant effects or critical hazards.

Ingestion : AD-293 Cell Line >1 x 10e6

Viable Cells

No known significant effects or critical hazards.

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

BJ5183-AD-1

electroporation competent

No known significant effects or critical hazards.

Vector

XL10-Gold Ultracompetent No known significant effects or critical hazards.

cells

XL10-Gold No known significant effects or critical hazards.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid No known significant effects or critical hazards. **Transformation Control** No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact AD-293 Cell Line >1 x 10e6

Viable Cells

Adverse symptoms may include the following:

irritation watering redness

pShuttle Vector No specific data. pShuttle-CMV Vector No specific data. pShuttle-CMV-lacZ Control No specific data.

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Inhalation

BJ5183-AD-1

No specific data.

electroporation competent

cells

XL10-Gold Ultracompetent

cells

Adverse symptoms may include the following:

irritation watering

redness XL10-Gold

2-Mercaptoethanol

Adverse symptoms may include the following:

pain

watering redness

pUC 18 DNA Control Plasmid No specific data.

Transformation Control No specific data. No specific data.

: AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector No specific data. pShuttle-CMV Vector No specific data. pShuttle-CMV-lacZ Control No specific data.

Vector

BJ5183-AD-1 No specific data.

electroporation competent

cells

XL10-Gold Ultracompetent No specific data.

cells

XL10-Gold Adverse symptoms may include the following:

2-Mercaptoethanol

reduced foetal weight increase in foetal deaths skeletal malformations

pUC 18 DNA Control Plasmid No specific data. **Transformation Control** No specific data. No specific data.

Skin contact : AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector No specific data. pShuttle-CMV Vector No specific data. pShuttle-CMV-lacZ Control No specific data.

Vector

BJ5183-AD-1 No specific data.

electroporation competent

XL10-Gold Ultracompetent

cells

No specific data.

XL10-Gold

Adverse symptoms may include the following:

2-Mercaptoethanol

pain or irritation redness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

pUC 18 DNA Control Plasmid No specific data. **Transformation Control**

: AD-293 Cell Line >1 x 10e6

No specific data.

Ingestion

Viable Cells pShuttle Vector No specific data.

pShuttle-CMV Vector pShuttle-CMV-lacZ Control

No specific data. No specific data.

No specific data.

Vector

BJ5183-AD-1 No specific data.

electroporation competent

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XL10-Gold Ultracompetent

cells

XL10-Gold Adverse symptoms may include the following:

No specific data.

2-Mercaptoethanol

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

pUC 18 DNA Control Plasmid No specific data. Transformation Control No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: AD-293 Cell Line >1 x 10e6

Viable Cells

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

person may need to be kept under medical

surveillance for 48 hours.

pShuttle Vector Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Treat symptomatically. Contact poison treatment pShuttle-CMV Vector

specialist immediately if large quantities have been

ingested or inhaled.

pShuttle-CMV-lacZ Control

Vector

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

BJ5183-AD-1

electroporation competent

cells

ingested or inhaled.

XL10-Gold Ultracompetent

cells

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

XL10-Gold 2-Mercaptoethanol Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

pUC 18 DNA Control Plasmid Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

Transformation Control

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments

AD-293 Cell Line >1 x 10e6

Viable Cells

BJ5183-AD-1

No specific treatment. No specific treatment.

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Vector

No specific treatment. No specific treatment.

No specific treatment.

electroporation competent

XL10-Gold Ultracompetent

No specific treatment.

cells

XL10-Gold No specific treatment.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid No specific treatment. Transformation Control No specific treatment.

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Protection of first-aiders

AD-293 Cell Line >1 x 10e6

Viable Cells

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

pShuttle Vector No action shall be taken involving any personal risk

or without suitable training.

pShuttle-CMV Vector No action shall be taken involving any personal risk

or without suitable training.

or without suitable training.

or without suitable training.

pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1

electroporation competent

cells

XL10-Gold Ultracompetent

cells

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to

No action shall be taken involving any personal risk

No action shall be taken involving any personal risk

the person providing aid to give mouth-to-mouth

resuscitation.

XL10-Gold

2-Mercaptoethanol

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

pUC 18 DNA Control Plasmid No action shall be taken involving any personal risk

or without suitable training.

Transformation Control No action shall be taken involving any personal risk

or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

: AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the

Use an extinguishing agent suitable for the

Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the pShuttle-CMV Vector

surrounding fire.

surrounding fire.

surrounding fire.

pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1

electroporation competent

XL10-Gold Ultracompetent

cells XL10-Gold

2-Mercaptoethanol

Use an extinguishing agent suitable for the

surrounding fire. Use an extinguishing agent suitable for the

surrounding fire.

pUC 18 DNA Control Plasmid Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the **Transformation Control**

surrounding fire.

Unsuitable extinguishing media

: AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1

electroporation competent cells

None known.

None known. None known. None known.

None known.

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Section 5. Firefighting measures

XL10-Gold Ultracompetent

cells

None known. None known.

XL10-Gold 2-Mercaptoethanol

pUC 18 DNA Control Plasmid None known.

Transformation Control None known.

Specific hazards arising from the chemical

: AD-293 Cell Line >1 x 10e6

Viable Cells pShuttle Vector In a fire or if heated, a pressure increase will occur

and the container may burst.

In a fire or if heated, a pressure increase will occur

and the container may burst.

pShuttle-CMV Vector In a fire or if heated, a pressure increase will occur

and the container may burst.

and the container may burst.

and the container may burst.

pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1

electroporation competent

XL10-Gold Ultracompetent

XL10-Gold

cells

2-Mercaptoethanol

In a fire or if heated, a pressure increase will occur

In a fire or if heated, a pressure increase will occur

In a fire or if heated, a pressure increase will occur

and the container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any

waterway, sewer or drain.

pUC 18 DNA Control Plasmid In a fire or if heated, a pressure increase will occur

and the container may burst.

Transformation Control

In a fire or if heated, a pressure increase will occur

and the container may burst.

Hazardous thermal decomposition products AD-293 Cell Line >1 x 10e6

Viable Cells

Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides No specific data.

No specific data.

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1

electroporation competent

cells

No specific data.

Decomposition products may include the following

materials:

carbon dioxide

XL10-Gold Ultracompetent

2-Mercaptoethanol

cells

carbon monoxide Decomposition products may include the following

materials: carbon dioxide

carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides

XL10-Gold Decomposition products may include the following

> materials: carbon dioxide carbon monoxide

sulfur oxides halogenated compounds metal oxide/oxides

pUC 18 DNA Control Plasmid No specific data. **Transformation Control** No specific data.

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Section 5. Firefighting measures

| Special | protective | actions |
|----------------|------------|---------|
| for fire-f | ighters | |

: AD-293 Cell Line >1 x 10e6

Viable Cells

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

pShuttle Vector

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

pShuttle-CMV Vector

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

pShuttle-CMV-lacZ Control

Vector

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

BJ5183-AD-1

electroporation competent

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

XL10-Gold Ultracompetent

cells

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

XL10-Gold

2-Mercaptoethanol

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

pUC 18 DNA Control Plasmid Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Transformation Control

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Special protective equipment for fire-fighters AD-293 Cell Line >1 x 10e6

Viable Cells

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive

pressure mode.

pShuttle Vector

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

pShuttle-CMV Vector

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

pShuttle-CMV-lacZ Control

Vector

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

BJ5183-AD-1

electroporation competent

cells

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

XL10-Gold Ultracompetent

cells

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

pressure mode.

XL10-Gold

2-Mercaptoethanol

(SCBA) with a full face-piece operated in positive

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

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Section 5. Firefighting measures

pressure mode.

pUC 18 DNA Control Plasmid Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Transformation Control Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: AD-293 Cell Line >1 x 10e6

Viable Cells

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

pShuttle Vector No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal

protective equipment.

pShuttle-CMV Vector No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal

protective equipment.

pShuttle-CMV-lacZ Control

Vector

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected

personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal

protective equipment.

BJ5183-AD-1

electroporation competent

cells

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal

protective equipment.

XL10-Gold Ultracompetent

cells

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk

through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

XL10-Gold

2-Mercaptoethanol

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

pUC 18 DNA Control Plasmid No action shall be taken involving any personal risk

or without suitable training. Evacuate surrounding

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Section 6. Accidental release measures

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal

protective equipment.

Transformation Control

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal

protective equipment.

For emergency responders : AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector

pShuttle-CMV Vector

pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1

electroporation competent

cells

XL10-Gold Ultracompetent

XL10-Gold

2-Mercaptoethanol

Transformation Control

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on

suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". pUC 18 DNA Control Plasmid If specialised clothing is required to deal with the

> spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the

> spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: AD-293 Cell Line >1 x 10e6

Viable Cells

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

Avoid dispersal of spilt material and runoff and pShuttle Vector

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

pShuttle-CMV Vector

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

pShuttle-CMV-lacZ Control Avoid dispersal of spilt material and runoff and

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Section 6. Accidental release measures

Vector contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

BJ5183-AD-1

electroporation competent

cells

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

XL10-Gold Ultracompetent

cells

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

XL10-Gold

2-Mercaptoethanol

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

pUC 18 DNA Control Plasmid Avoid dispersal of spilt material and runoff and

contact with soil, waterways, drains and sewers.
Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air)

Transformation Control Avoid dispersal of spilt material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up

AD-293 Cell Line >1 x 10e6

Viable Cells

Stop leak if without risk. Contain spill and decontaminate the area using a disinfectant e.g. a 10% bleach for 20 min. Move containers from spill area. Dispose of via a licensed waste disposal

contractor.

pShuttle Vector Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

pShuttle-CMV Vector Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

pShuttle-CMV-lacZ Control

Vector

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

BJ5183-AD-1

electroporation competent

cells

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

XL10-Gold Ultracompetent

cells

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

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Section 6. Accidental release measures

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

XL10-Gold

2-Mercaptoethanol

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

pUC 18 DNA Control Plasmid Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Transformation Control

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

AD-293 Cell Line >1 x 10e6 Viable Cells

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

pShuttle Vector

Put on appropriate personal protective equipment (see Section 8).

pShuttle-CMV Vector

Put on appropriate personal protective equipment (see Section 8).

pShuttle-CMV-lacZ Control

Vector

Put on appropriate personal protective equipment (see Section 8).

BJ5183-AD-1 electroporation competent Put on appropriate personal protective equipment

Put on appropriate personal protective equipment

(see Section 8).

XL10-Gold Ultracompetent cells

(see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not

reuse container.

XL10-Gold 2-Mercaptoethanol

(see Section 8). Persons with a history of skin sensitization problems should not be employed in any

Put on appropriate personal protective equipment

process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with

adequate ventilation or wear appropriate respirator.

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Section 7. Handling and storage

Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

pUC 18 DNA Control Plasmid Put on appropriate personal protective equipment (see Section 8).

Transformation Control

Put on appropriate personal protective equipment

(see Section 8).

Advice on general occupational hygiene AD-293 Cell Line >1 x 10e6 Viable Cells

Handle this product as biohazardous material under biosafety level (BSL)-2 containment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on

hygiene measures.

pShuttle Vector

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

pShuttle-CMV Vector

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

pShuttle-CMV-lacZ Control Vector

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

BJ5183-AD-1

electroporation competent

cells

Potentially biohazardous material. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on

hygiene measures.

XL10-Gold Ultracompetent

cells

Potentially biohazardous material. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on

hygiene measures.

XL10-Gold

2-Mercaptoethanol

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

pUC 18 DNA Control Plasmid Eating, drinking and smoking should be prohibited in

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Transformation Control

areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: AD-293 Cell Line >1 x 10e6 Viable Cells

pShuttle Vector

pShuttle-CMV Vector

pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation competent cells Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until

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XL10-Gold Ultracompetent cells

ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. pUC 18 DNA Control Plasmid Store in accordance with local regulations. Store in

XL10-Gold 2-Mercaptoethanol

Transformation Control

dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

original container protected from direct sunlight in a

Section 8. Exposure controls and personal protection

Control parameters Occupational exposure limits

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Section 8. Exposure controls and personal protection

| Ingredient name | Exposure limits |
|--|---|
| AD-293 Cell Line >1 x 10e6 Viable Cells Dimethyl sulfoxide | DFG MAC-values list (Germany, 7/2023). Absorbed through skin. PEAK: 320 mg/m³, 4 times per shift, 15 minutes. TWA: 160 mg/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours. |
| BJ5183-AD-1 electroporation competent cells Glycerol | Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m³ 8 hours. |
| XL10-Gold Ultracompetent cells Glycerol Dimethyl sulfoxide | Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m³ 8 hours. DFG MAC-values list (Germany, 7/2023). Absorbed through skin. PEAK: 320 mg/m³, 4 times per shift, 15 |
| Sucrose | minutes. TWA: 160 mg/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours. Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m³ 8 hours. |

Biological exposure indices

No exposure indices known.

Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Handle as biohazard material (Biosafety level 1). Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

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Section 8. Exposure controls and personal protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Not available.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : AD-293 Cell Line >1 x 10e6 Liquid.

Viable Cells

pShuttle Vector Liquid. pShuttle-CMV Vector Liquid. pShuttle-CMV-lacZ Control Liquid.

Vector

BJ5183-AD-1 Liquid.

electroporation competent

cells

XL10-Gold Ultracompetent Liquid.

cells

XL10-Gold Liquid.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid Liquid. Transformation Control Liquid.

Colour : AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector Not available. pShuttle-CMV Vector Not available. pShuttle-CMV-lacZ Control Not available.

Vector

BJ5183-AD-1 Not available.

electroporation competent

cells

XL10-Gold Ultracompetent Not available.

cells

XL10-Gold Not available.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid Not available.
Transformation Control Not available.

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| Odour | : | AD-293 Cell Line >1 x 10e6 Viable Cells | Not available. |
|------------------------------|---|--|---------------------|
| | | pShuttle Vector | Not available. |
| | | pShuttle-CMV Vector | Not available. |
| | | pShuttle-CMV-lacZ Control | Not available. |
| | | Vector | riot a ranabio. |
| | | BJ5183-AD-1 | Not available. |
| | | electroporation competent | riot available. |
| | | cells | |
| | | XL10-Gold Ultracompetent | Not available. |
| | | cells | NOL avallable. |
| | | XL10-Gold | Not available. |
| | | | NOL available. |
| | | 2-Mercaptoethanol | NI=4 ==!I=I=I= |
| | | pUC 18 DNA Control Plasmid | |
| | | Transformation Control | Not available. |
| Odour threshold | : | AD-293 Cell Line >1 x 10e6 Viable Cells | Not available. |
| | | pShuttle Vector | Not available. |
| | | pShuttle-CMV Vector | Not available. |
| | | pShuttle-CMV-lacZ Control | Not available. |
| | | Vector | NUL avallable. |
| | | | Natavallable |
| | | BJ5183-AD-1 | Not available. |
| | | electroporation competent | |
| | | cells | N1 - 4 21 - 1 - 1 - |
| | | XL10-Gold Ultracompetent | Not available. |
| | | cells | N1 - 6 21 - 1 - 1 - |
| | | XL10-Gold | Not available. |
| | | 2-Mercaptoethanol | NI=4 ==!I=I=I= |
| | | pUC 18 DNA Control Plasmid | |
| | | Transformation Control | Not available. |
| pH | : | AD-293 Cell Line >1 x 10e6 | 7.5 |
| | | Viable Cells | |
| | | pShuttle Vector | 7.5 |
| | | pShuttle-CMV Vector | 7.5 |
| | | pShuttle-CMV-lacZ Control | 7.5 |
| | | Vector | |
| | | BJ5183-AD-1 | Not available. |
| | | electroporation competent | |
| | | cells | |
| | | XL10-Gold Ultracompetent | 6.4 |
| | | cells | |
| | | XL10-Gold | Not available. |
| | | 2-Mercaptoethanol | |
| | | pUC 18 DNA Control Plasmid | 7.5 |
| | | Transformation Control | 7.5 |
| Melting point/freezing point | ÷ | AD-293 Cell Line >1 x 10e6 | Not available. |
| morang pontaneoung ponta | | Viable Cells | |
| | | pShuttle Vector | 0°C (32°F) |
| | | pShuttle-CMV Vector | 0°C (32°F) |
| | | pShuttle-CMV-lacZ Control | 0°C (32°F) |
| | | Vector | 0 0 (02 1) |
| | | BJ5183-AD-1 | Not available. |
| | | electroporation competent | |
| | | cells | |
| | | XL10-Gold Ultracompetent | Not available. |
| | | cells | . vot a valiable. |
| | | XL10-Gold | Not available. |
| | | 2-Mercaptoethanol | . tot a valiable. |
| | | pUC 18 DNA Control Plasmid | 0°C (32°F) |
| | | Transformation Control | 0°C (32°F) |
| | | Tanoiomadon Control | 0 0 (02 1) |

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Boiling point, initial boiling point, and boiling range

AD-293 Cell Line >1 x 10e6 Not available.

Viable Cells pShuttle Vector 100°C (212°F)

pShuttle-CMV Vector 100°C (212°F) pShuttle-CMV-lacZ Control 100°C (212°F)

Vector

BJ5183-AD-1 Not available.

electroporation competent

cells

XL10-Gold Ultracompetent Not available.

cells

XL10-Gold Not available.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid 100°C (212°F) Transformation Control 100°C (212°F)

Flash point

| | Closed cup | | | Open cup | | |
|---|------------|-------|-----------|----------|-------|--------|
| Ingredient name | °C | °F | Method | °C | °F | Method |
| AD-293 Cell Line >1 x 10e6 Viable Cells | | | | | | |
| Dimethyl sulfoxide | 87 | 188.6 | ASTM D 93 | 87 | 188.6 | - |
| BJ5183-AD-1 electroporation competent cells | | | | | | |
| Glycerol | - | - | - | 177 | 350.6 | - |
| XL10-Gold Ultracompetent cells | | | | | | |
| Dimethyl sulfoxide | 87 | 188.6 | ASTM D 93 | 87 | 188.6 | - |
| Glycerol | - | - | - | 177 | 350.6 | - |
| XL10-Gold 2-Mercaptoethanol | | | | | | |
| 2-Mercaptoethanol | 74 | 165.2 | - | 74 | 165.2 | - |

Evaporation rate

AD-293 Cell Line >1 x 10e6 Not available.

Viable Cells

pShuttle Vector Not available. pShuttle-CMV Vector Not available. pShuttle-CMV-lacZ Control Not available.

Vector

BJ5183-AD-1 Not available.

electroporation competent

cells

XL10-Gold Ultracompetent Not available.

cells

XL10-Gold Not available.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid Not available. Transformation Control Not available.

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Flammability

AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector Not applicable. pShuttle-CMV Vector Not applicable. pShuttle-CMV-lacZ Control Not applicable.

Vector

BJ5183-AD-1 Not applicable.

electroporation competent

XL10-Gold Ultracompetent Not applicable.

cells

XL10-Gold Not applicable.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid Not applicable. **Transformation Control** Not applicable.

Lower and upper explosion limit/flammability limit

: AD-293 Cell Line >1 x 10e6

Not available.

Viable Cells pShuttle Vector Not available.

pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Not available. Not available.

Not applicable.

Vector

BJ5183-AD-1

Not available.

electroporation competent

XL10-Gold Ultracompetent Not available.

cells

XL10-Gold Not available.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid Not available. Transformation Control Not available.

Vapour pressure

| | Vapour Pressu | | ure at 20°C Va | | Vapour pressure at 50°C | | |
|---|---------------|-------|----------------|----------|-------------------------|--------|--|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method | |
| AD-293 Cell Line >1 x 10e6 Viable Cells | | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - | |
| Dimethyl sulfoxide | 0.42 | 0.056 | EU A.4 | - | - | - | |
| pShuttle Vector | | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - | |
| pShuttle-CMV Vector | | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - | |
| pShuttle-CMV- lacZ Control Vector | | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - | |
| BJ5183-AD-1 | | | | | | | |

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| 1 | | | | | 1 | T. |
|--|----------|------------------|--------|--------|---------|----|
| electroporation competent cells | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| Glycerol | 0.000075 | 0.00001 | - | 0.0025 | 0.00033 | - |
| XL10-Gold Ultracompetent cells | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| Dimethyl sulfoxide | 0.42 | 0.056 | EU A.4 | - | - | - |
| XL10-Gold 2-Mercaptoethanol | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| 2-Mercaptoethanol | 0.97508 | 0.13 | - | - | - | - |
| pUC 18 DNA Control Plasmid water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| Transformation Control | | | | | | |
| water | 17.5 | 2.3 Not avail | - | 92.258 | 12.3 | - |

Relative vapour density

: AD-293 Cell Line >1 x 10e6

Not available.

Viable Cells

pShuttle Vector Not available. pShuttle-CMV Vector Not available. pShuttle-CMV-lacZ Control Not available.

Vector

BJ5183-AD-1 Not available.

electroporation competent

cells

XL10-Gold Ultracompetent Not available.

cells

XL10-Gold Not available.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid Not available.
Transformation Control Not available.
AD-293 Cell Line >1 x 10e6 Not available.

Relative density : AD-293 Cell Line >1 x 10e6

Viable Cells pShuttle Vector

Not available. Not available.

pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Not available.

Vector

BJ5183-AD-1 Not available.

electroporation competent

ells

XL10-Gold Ultracompetent Not available.

cells

XL10-Gold Not available.

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2-Mercaptoethanol

pUC 18 DNA Control Plasmid Not available. Transformation Control Not available.

Solubility(ies)

| Media | Result |
|---|---------|
| AD-293 Cell Line >1 x 10e6 Viable | |
| Cells | |
| water | Soluble |
| pShuttle Vector | |
| water | Soluble |
| pShuttle-CMV Vector | |
| water | Soluble |
| pShuttle-CMV-lacZ Control Vector | |
| water | Soluble |
| BJ5183-AD-1 electroporation competent cells | |
| water | Soluble |
| XL10-Gold Ultracompetent cells | |
| water | Soluble |
| XL10-Gold 2-Mercaptoethanol | |
| water | Soluble |
| pUC 18 DNA Control Plasmid | |
| water | Soluble |
| Transformation Control | |
| water | Soluble |

Partition coefficient: n-octanol/water

AD-293 Cell Line >1 x 10e6 Not applicable. Viable Cells pShuttle Vector Not applicable. Not applicable. pShuttle-CMV Vector pShuttle-CMV-lacZ Control Not applicable. Vector BJ5183-AD-1 Not applicable. electroporation competent XL10-Gold Ultracompetent Not applicable. cells XL10-Gold Not applicable.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid Not applicable. Transformation Control Not applicable.

Auto-ignition temperature

| Ingredient name | °C | °F | Method |
|---|------------|--------------|--------|
| AD-293 Cell Line >1 x 10e6 Viable Cells | | | |
| Dimethyl sulfoxide | 300 to 302 | 572 to 575.6 | - |
| BJ5183-AD-1 electroporation competent cells | | | |
| Glycerol | 370 | 698 | - |
| XL10-Gold Ultracompetent cells | | | |
| Dimethyl sulfoxide | 300 to 302 | 572 to 575.6 | - |
| Glycerol | 370 | 698 | - |
| | | | |

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| XL10-Gold 2-Mercaptoethanol | | | |
|--------------------------------|-----|-----|---|
| 2-Mercaptoethanol | 295 | 563 | - |

Decomposition temperature

AD-293 Cell Line >1 x 10e6

x 10e6 Not available.

Viable Cells

pShuttle Vector Not available. pShuttle-CMV Vector Not available. pShuttle-CMV-lacZ Control Not available.

Vector

BJ5183-AD-1 Not available.

electroporation competent

XL10-Gold Ultracompetent

cells

Not available.

cells

XL10-Gold Not available.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid Not available. Transformation Control Not available.

Viscosity

AD-293 Cell Line >1 x 10e6

>1 x 10e6 Not available.

Viable Cells

pShuttle Vector Not available. pShuttle-CMV Vector Not available. pShuttle-CMV-lacZ Control Not available.

Vector

BJ5183-AD-1 Not available.

electroporation competent

cells

XL10-Gold Ultracompetent Not available.

cells

XL10-Gold Not available.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid Not available. Transformation Control Not available.

Particle characteristics

Median particle size

AD-293 Cell Line >1 x 10e6

Not applicable.

Viable Cells

pShuttle Vector Not applicable. pShuttle-CMV Vector Not applicable. pShuttle-CMV-lacZ Control Not applicable.

Vector

BJ5183-AD-1 Not applicable.

electroporation competent

cells

XL10-Gold Ultracompetent Not applicable.

cells

XL10-Gold Not applicable.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid Not applicable. Transformation Control Not applicable.

Section 10. Stability and reactivity

Reactivity

AD-293 Cell Line >1 x 10e6

No specific test data related to reactivity available for

Viable Cells this product or its ingredients.

pShuttle Vector No specific test data related to reactivity available for

this product or its ingredients.

pShuttle-CMV Vector No specific test data related to reactivity available for

this product or its ingredients.

pShuttle-CMV-lacZ Control No specific test data related to reactivity available for

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Section 10. Stability and reactivity

Vector this product or its ingredients.

BJ5183-AD-1 No specific test data related to reactivity available for

electroporation competent this product or its ingredients.

cells

No specific test data related to reactivity available for XL10-Gold Ultracompetent

cells this product or its ingredients.

XL10-Gold No specific test data related to reactivity available for

this product or its ingredients. 2-Mercaptoethanol

pUC 18 DNA Control Plasmid No specific test data related to reactivity available for

this product or its ingredients.

No specific test data related to reactivity available for Transformation Control

this product or its ingredients.

Chemical stability

: AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1

electroporation competent

XL10-Gold Ultracompetent

cells

XL10-Gold

2-Mercaptoethanol

Transformation Control

The product is stable.

The product is stable. The product is stable. The product is stable.

The product is stable.

The product is stable.

The product is stable.

pUC 18 DNA Control Plasmid The product is stable. The product is stable.

Possibility of hazardous reactions

: AD-293 Cell Line >1 x 10e6

Viable Cells pShuttle Vector

pShuttle-CMV Vector

pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1

electroporation competent

XL10-Gold Ultracompetent

cells

XL10-Gold

2-Mercaptoethanol

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

pUC 18 DNA Control Plasmid Under normal conditions of storage and use,

hazardous reactions will not occur.

Transformation Control Under normal conditions of storage and use,

hazardous reactions will not occur.

Conditions to avoid

: AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1

electroporation competent

XL10-Gold Ultracompetent

cells

XL10-Gold 2-Mercaptoethanol No specific data.

No specific data. No specific data. No specific data.

No specific data.

No specific data.

No specific data.

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Section 10. Stability and reactivity

pUC 18 DNA Control Plasmid No specific data. Transformation Control No specific data.

Incompatible materials

AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector May react or be incompatible with oxidising materials. pShuttle-CMV Vector May react or be incompatible with oxidising materials. pShuttle-CMV-lacZ Control May react or be incompatible with oxidising materials.

Vector

BJ5183-AD-1

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

electroporation competent

cells

XL10-Gold Ultracompetent

May react or be incompatible with oxidising materials.

XL10-Gold

2-Mercaptoethanol

May react or be incompatible with oxidising materials.

pUC 18 DNA Control Plasmid May react or be incompatible with oxidising materials. **Transformation Control** May react or be incompatible with oxidising materials.

Hazardous decomposition products

AD-293 Cell Line >1 x 10e6

Viable Cells

Under normal conditions of storage and use, hazardous decomposition products should not be

Under normal conditions of storage and use, pShuttle Vector

hazardous decomposition products should not be

produced.

Under normal conditions of storage and use, pShuttle-CMV Vector

hazardous decomposition products should not be

produced.

pShuttle-CMV-lacZ Control

Vector

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

BJ5183-AD-1

electroporation competent

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

XL10-Gold Ultracompetent

cells

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

XL10-Gold 2-Mercaptoethanol Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

pUC 18 DNA Control Plasmid Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Transformation Control

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|--------------------------|------------|----------------------------|----------|
| AD-293 Cell Line >1 x 10e6 Viable Cells | | | | |
| Dimethyl sulfoxide | LD50 Dermal LD50 Oral | Rat Rat | 40000 mg/kg 14500 mg/kg | - |
| BJ5183-AD-1 electroporation competent cells | | | | |
| Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |

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| XL10-Gold Ultracompetent cells Glycerol Dimethyl sulfoxide | LD50 Oral LD50 Dermal | Rat Rat | 12600 mg/kg 40000 mg/kg | - - |
|---|--------------------------|------------|----------------------------|--------|
| Sucrose | LD50 Oral LD50 Oral | Rat Rat | 14500 mg/kg 29700 mg/kg | - |
| XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol | LD50 Oral | Rat | 244 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|----------------------------|------------------------|---------|-------|--------------------|-------------|
| AD-293 Cell Line >1 x 10e6 | | | | | |
| Viable Cells | | | | | |
| Dimethyl sulfoxide | Eyes - Mild irritant | Rabbit | - | 100 mg | - |
| | Eyes - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| | Skin - Mild irritant | Rabbit | - | 100 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| BJ5183-AD-1 | | | | | |
| electroporation competent | | | | | |
| cells | | | | | |
| Glycerol | Eyes - Mild irritant | Rabbit | _ | 24 hours 500 | _ |
| | | | | mg | |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| XL10-Gold Ultracompetent | | | | | |
| cells | | | | | |
| Glycerol | Eyes - Mild irritant | Rabbit | _ | 24 hours 500 | _ |
| S.yesie. | _yee ning iintan | rassit | | mg | |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| Dimethyl sulfoxide | Eyes - Mild irritant | Rabbit | - | 100 mg | - |
| | Eyes - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| | Skin - Mild irritant | Rabbit | - | 100 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| XL10-Gold | | | | | |
| 2-Mercaptoethanol | | | | | |
| 2-Mercaptoethanol | Eyes - Severe irritant | Rabbit | - | 2 mg | - |

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

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Not available.

Specific target organ toxicity (repeated exposure)

| Name | 3 3 3 | Route of exposure | Target organs |
|---|------------|-------------------|---------------|
| XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol | Category 2 | - | heart, liver |

Aspiration hazard

Not available.

Information on likely routes of exposure

AD-293 Cell Line >1 x 10e6 Viable Cells

Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

pShuttle Vector Not available. pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Not available. Not available.

Vector

Not available. BJ5183-AD-1

electroporation competent

Routes of entry anticipated: Oral, Dermal, Inhalation,

XL10-Gold Ultracompetent cells

XL10-Gold Routes of entry anticipated: Oral, Dermal, Inhalation,

2-Mercaptoethanol Eyes. pUC 18 DNA Control Plasmid Not available.

Potential acute health effects

Eye contact

AD-293 Cell Line >1 x 10e6

Causes eye irritation.

Not available.

pShuttle Vector pShuttle-CMV Vector

Transformation Control

No known significant effects or critical hazards. No known significant effects or critical hazards. pShuttle-CMV-lacZ Control No known significant effects or critical hazards.

Vector

BJ5183-AD-1

No known significant effects or critical hazards.

electroporation competent

Viable Cells

cells

XL10-Gold Ultracompetent Causes eye irritation.

cells

XL10-Gold Causes serious eye damage.

2-Mercaptoethanol

Transformation Control

No known significant effects or critical hazards.

Inhalation

AD-293 Cell Line >1 x 10e6 No known significant effects or critical hazards. Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Vector

BJ5183-AD-1 No known significant effects or critical hazards.

pUC 18 DNA Control Plasmid No known significant effects or critical hazards.

electroporation competent

XL10-Gold Ultracompetent

No known significant effects or critical hazards. cells

XL10-Gold No known significant effects or critical hazards.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid No known significant effects or critical hazards. **Transformation Control** No known significant effects or critical hazards.

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Section 11. Toxicological information

Skin contact : AD-293 Cell Line >1 x 10e6 No known significant effects or critical hazards. Viable Cells

> pShuttle Vector No known significant effects or critical hazards. pShuttle-CMV Vector No known significant effects or critical hazards. pShuttle-CMV-lacZ Control No known significant effects or critical hazards.

Vector

BJ5183-AD-1 No known significant effects or critical hazards.

electroporation competent

XL10-Gold Ultracompetent No known significant effects or critical hazards.

cells

XL10-Gold May cause an allergic skin reaction.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid No known significant effects or critical hazards. Transformation Control No known significant effects or critical hazards. No known significant effects or critical hazards.

: AD-293 Cell Line >1 x 10e6

Viable Cells pShuttle Vector No known significant effects or critical hazards. No known significant effects or critical hazards.

pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

No known significant effects or critical hazards.

No known significant effects or critical hazards.

BJ5183-AD-1 electroporation competent

No known significant effects or critical hazards.

XL10-Gold Ultracompetent

cells

No known significant effects or critical hazards.

2-Mercaptoethanol

XL10-Gold

pUC 18 DNA Control Plasmid No known significant effects or critical hazards. Transformation Control No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

AD-293 Cell Line >1 x 10e6 **Eye contact** Adverse symptoms may include the following:

Viable Cells

irritation watering redness

pShuttle Vector No specific data. pShuttle-CMV Vector No specific data. pShuttle-CMV-lacZ Control No specific data. Vector

BJ5183-AD-1 No specific data.

electroporation competent

XL10-Gold Ultracompetent

Adverse symptoms may include the following:

cells

irritation watering redness

XL10-Gold Adverse symptoms may include the following:

2-Mercaptoethanol

pain watering redness

pUC 18 DNA Control Plasmid No specific data. **Transformation Control** No specific data.

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: AD-293 Cell Line >1 x 10e6 No specific data.

Viable Cells

pShuttle Vector No specific data. pShuttle-CMV Vector No specific data. pShuttle-CMV-lacZ Control No specific data.

Vector

BJ5183-AD-1 No specific data.

electroporation competent

cells

XL10-Gold Ultracompetent No specific data.

cells

XL10-Gold Adverse symptoms may include the following:

2-Mercaptoethanol

reduced foetal weight increase in foetal deaths skeletal malformations

pUC 18 DNA Control Plasmid No specific data. **Transformation Control** No specific data.

Skin contact : AD-293 Cell Line >1 x 10e6 No specific data.

Viable Cells

pShuttle Vector No specific data. pShuttle-CMV Vector No specific data. pShuttle-CMV-lacZ Control No specific data.

Vector

BJ5183-AD-1 No specific data.

electroporation competent

XL10-Gold Ultracompetent No specific data.

XL10-Gold

cells

2-Mercaptoethanol

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations pUC 18 DNA Control Plasmid No specific data.

Transformation Control No specific data. No specific data.

: AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector No specific data. pShuttle-CMV Vector No specific data. pShuttle-CMV-lacZ Control No specific data.

Vector

Ingestion

BJ5183-AD-1 No specific data.

electroporation competent

cells

XL10-Gold Ultracompetent No specific data.

cells

XL10-Gold Adverse symptoms may include the following:

2-Mercaptoethanol

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

pUC 18 DNA Control Plasmid No specific data. Transformation Control No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure **Short term exposure**

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Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

Carcinogenicity

Mutagenicity

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Vector

BJ5183-AD-1

electroporation competent

cells

XL10-Gold Ultracompetent

cells

XL10-Gold

2-Mercaptoethanol

Transformation Control

AD-293 Cell Line >1 x 10e6

Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Vector BJ5183-AD-1

electroporation competent

XL10-Gold Ultracompetent

cells

XL10-Gold

2-Mercaptoethanol

pUC 18 DNA Control Plasmid No known significant effects or critical hazards. **Transformation Control**

: AD-293 Cell Line >1 x 10e6 Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control

Vector BJ5183-AD-1

electroporation competent

cells

XL10-Gold Ultracompetent

cells

XL10-Gold

2-Mercaptoethanol

Transformation Control AD-293 Cell Line >1 x 10e6

Reproductive toxicity Viable Cells

> pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation competent

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Once sensitized, a severe allergic reaction may occur

when subsequently exposed to very low levels. pUC 18 DNA Control Plasmid No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

pUC 18 DNA Control Plasmid No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

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cells

XL10-Gold Ultracompetent No known significant effects or critical hazards.

cells

XL10-Gold Suspected of damaging fertility or the unborn child.

2-Mercaptoethanol

pUC 18 DNA Control Plasmid No known significant effects or critical hazards. Transformation Control No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|------------------|-------------------|--------------------------------|-----------------------------------|--|
| AD-293 Cell Line >1 x 10e6 Viable Cells | | | | | |
| Dimethyl sulfoxide | 14500 | 40000 | N/A | N/A | N/A |
| BJ5183-AD-1 electroporation competent cells Glycerol | 12600 | N/A | N/A | N/A | N/A |
| XL10-Gold Ultracompetent cells | | | | | |
| Glycerol | 12600 | N/A | N/A | N/A | N/A |
| Dimethyl sulfoxide | 14500 | 40000 | N/A | N/A | N/A |
| Sucrose | 29700 | N/A | N/A | N/A | N/A |
| XL10-Gold 2-Mercaptoethanol XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol | 5545.5 244 | 4545.5 200 | N/A N/A | 60.7 3 | N/A N/A |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|--------------------------------------|--|----------|
| AD-293 Cell Line >1 x 10e6 Viable Cells | | | |
| Dimethyl sulfoxide | Acute LC50 25000 ppm Fresh water | Daphnia - <i>Daphnia magna</i> - | 48 hours |
| | | Neonate | |
| | Acute LC50 34000000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Chronic NOEC 100 ul/L Marine water | Algae - Ulva lactuca | 72 hours |
| | Chronic NOEC 100 ul/L Fresh water | Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling) | 21 days |
| BJ5183-AD-1 | | | |
| electroporation competent cells | | | |
| Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| XL10-Gold Ultracompetent cells | | | |
| Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| Dimethyl sulfoxide | Acute LC50 25000 ppm Fresh water | Daphnia - <i>Daphnia magna</i> - Neonate | 48 hours |
| | Acute LC50 34000000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Chronic NOEC 100 ul/L Marine water | Algae - <i>Ulva lactuca</i> | 72 hours |
| | Chronic NOEC 100 ul/L Fresh water | Daphnia - <i>Daphnia magna</i> - | 21 days |
| | | Juvenile (Fledgling, Hatchling, | |
| | | Weanling) | |
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Section 12. Ecological information

| XL10-Gold | | | |
|-------------------|---------------------------------|---------|----------|
| 2-Mercaptoethanol | | | |
| 2-Mercaptoethanol | Acute EC50 0.4 mg/l Fresh water | Daphnia | 48 hours |

Persistence and degradability

| Product/ingredient name | Test | Result | | Dose | Inoculum |
|--|--|----------------------|-----------|---------|------------------|
| AD-293 Cell Line >1 x 10e6 Viable Cells Dimethyl sulfoxide | OECD 301D Ready Biodegradability - Closed Bottle Test | 31 % - Not readily - | 28 days | - | - |
| BJ5183-AD-1 electroporation competent cells Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | | - | - |
| XL10-Gold Ultracompetent cells | | | | | |
| Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | | - | - |
| Dimethyl sulfoxide | OECD 301D Ready Biodegradability - Closed Bottle Test | 31 % - Not readily - | 28 days | - | - |
| XL10-Gold | | | | | |
| 2-Mercaptoethanol 2-Mercaptoethanol | OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test) | 69 % - Not readily - | 60 days | 20 mg/l | - |
| Product/ingredient name | Aquatic half-life | | Photolysi | s | Biodegradability |
| AD-293 Cell Line >1 x 10e6 Viable Cells Dimethyl sulfoxide | - | | - | | Not readily |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|----------------------------|-------------------|------------|------------------|
| AD-293 Cell Line >1 x 10e6 | | | |
| Viable Cells | | | |
| Dimethyl sulfoxide | - | - | Not readily |
| XL10-Gold Ultracompetent | | | |
| cells | | | |
| Dimethyl sulfoxide | - | - | Not readily |
| XL10-Gold | | | |
| 2-Mercaptoethanol | | | |
| 2-Mercaptoethanol | - | - | Not readily |

Bioaccumulative potential

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Section 12. Ecological information

| Product/ingredient name | LogPow | BCF | Potential |
|--|--------|------|-----------|
| AD-293 Cell Line >1 x 10e6 Viable Cells Dimethyl sulfoxide | -1.35 | 3.16 | Low |
| BJ5183-AD-1 electroporation competent | | | |
| cells Glycerol | -1.76 | - | Low |
| XL10-Gold Ultracompetent cells | | | |
| Glycerol | -1.76 | - | Low |
| Dimethyl sulfoxide | -1.35 | 3.16 | Low |
| Sucrose | -3.7 | - | Low |
| XL10-Gold | | | |
| 2-Mercaptoethanol | 0.056 | | Law |
| 2-Mercaptoethanol | -0.056 | - | Low |

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ADG / IMDG / IATA

: Not regulated as Dangerous Goods according to the ADG Code .

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

to IMO instruments

Transport in bulk according : Not available.

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Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

6

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

New Zealand : Not determined.

United States : Not determined.

Section 16. Any other relevant information

History

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revision

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Key to abbreviations : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

Procedure used to derive the classification

| Classification | Justification |
|---|--------------------|
| AD-293 Cell Line >1 x 10e6 Viable Cells SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B | Calculation method |
| XL10-Gold Ultracompetent cells SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B | Calculation method |
| XL10-Gold 2-Mercaptoethanol SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 | Calculation method |

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Section 16. Any other relevant information

| SKIN SENSITISATION - Category 1 | Calculation method |
|---|--------------------|
| REPRODUCTIVE TOXICITY - Category 2 | Calculation method |
| LONG-TERM (CHRONIC) AQUATIC HAZARD - Category | Calculation method |
| 3 | |

▼ Indicates information that has changed from previously issued version.

Notice to reader

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