
1. Identification of the Substance and Company

Product Name: ScreenTape® R6K
Product Code: ST108

Company: Lab901 Ltd
IMEX Business Centre
Loanhead
EH20 9LZ
UK.
T +44 (0) 131 448 2904
F +44 (0) 131 448 0679
W www.lab901.com

2. Composition/Data on Components

The product contains no substances which, at their concentration, are considered to be hazardous to health.

3. Hazards Identification

Indication of Danger not hazardous

4. First Aid Measures

Ingestion do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms persist or are severe
Inhalation move to fresh air. Seek medical attention if symptoms persist or are severe.
Skin Contact wash immediately with plenty of water. Seek medical attention if symptoms persist or are severe
Eye Contact rinse thoroughly with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

5. Fire Fighting measures

Extinguishing media use media appropriate to the primary cause of fire
Protective Equipment wear protective clothing and self-contained breathing apparatus

6. Accidental Release measures

Personal Precautions use personal protective equipment; avoid contact with eyes, skin and clothing
Clean-up Method soak up with inert absorbent material

7. Handling & Storage

Handling no special handling advice required
Storage refrigerate within original container
Disposal observe all national and local regulations regarding disposal

8. Exposure Controls and Personal Protection

Exposure Limits no information available
Engineering Controls not expected to require any special ventilation
Respiratory Protection not expected to require personal respirator usage
Hand Protection impervious gloves
Eye Protection safety glasses
Skin and Body Protection handle in accordance with good industrial hygiene and safety practices

9. Physical & Chemical Properties

Form gel perfused by aqueous buffer solution
Boiling point/range °C no data available °F no data available
Melting point/range °C no data available °F no data available
Flash point °C no data available °F no data available
Autoignition temp. °C no data available °F no data available
Oxidising properties no information available
Water solubility no information available
Vapour Density no information available
Evaporation rate no information available
Specific gravity no information available

10. Stability & Reactivity

<i>Stability</i>	stable under normal conditions
<i>Conditions to avoid</i>	no dangerous conditions known
<i>Hazardous decomposition products</i>	no dangerous decomposition products known
<i>Hazardous polymerisation</i>	will not occur

11. Toxicological Information

Potential Health Effects

<i>Eyes</i>	no information available
<i>Skin</i>	no information available
<i>Inhalation</i>	no information available
<i>Ingestion</i>	no information available

Specific Effects

<i>Carcinogenic effects</i>	no information available
<i>Mutagenic effects</i>	no information available
<i>Reproductive toxicity</i>	no information available
<i>Sensitisation</i>	no information available

<u>Target Organ effects</u>	no information available
-----------------------------	--------------------------

12. Ecological Information

<i>Ecotoxicity effects</i>	no information available
<i>Mobility</i>	no information available
<i>Biodegradation</i>	inherently biodegradable
<i>Bioaccumulation</i>	does not bioaccumulate

13. Disposal Considerations

Dispose of in accordance with national and local regulations

14. Transport Information

<i>Proper shipping name</i>	not classified as dangerous in the meaning of transport regulations
<i>Hazard Class</i>	no information available
<i>Subsidiary Class</i>	no information available
<i>Packing group</i>	no information available
<i>UN-Number</i>	no information available

15. Regulations

<i>Indication of danger</i>	not hazardous
<i>R-phrase(s)</i>	no information available
<i>S-phrase(s)</i>	no information available

16. Other Information

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

Manufacturer Disclaimer: The information provided herein is offered in good faith as accurate, but without guarantee. The information is not to be taken as all inclusive and is to be used only as a guide. Conditions of use and suitability of the product for particular uses are beyond our control. All risks of use are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending licence under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

MSDS Creation Date:	07.04.10
Date of previous version:	12.10.09
Current Version:	B

Lab901, the Lab901 logo, ScreenTape, TapeStation and "More time for discovery" are either registered trademarks or trademarks of Lab901 Limited in the United Kingdom and/or other countries. All other trademarks are the property of their respective owners. ©2010 Lab901 Limited. All rights reserved.

1. Identification of the Substance and Company

Product Name: ScreenTape® R6K standard loading buffer kit
Product Code: ST223

Company: Lab901 Ltd
IMEX Business Centre
Loanhead
EH20 9LZ
UK.
T +44 (0) 131 448 2904
F +44 (0) 131 448 0679
W www.lab901.com

2. Composition/Data on Components

Hazardous/Non-hazardous Components

Chemical Name	CAS Number	Volume %	Kit Component(s)
Dimethyl Sulphoxide (DMSO)	67-68-5	70%	R6K standard loading buffer R6K cRNA loading buffer

3. Hazards Identification

Indication of Danger This substance is not classified as dangerous according to Directive 67/548/EEC

4. First Aid Measures

If inhaled If breathed in, move person into fresh air. If not breathing give artificial respiration
In case of skin contact Wash off with soap and plenty of water.
In case of eye contact Flush eyes with water as a precaution.
If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. Fire Fighting measures

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental Release Measures

Personal precautions Avoid breathing vapors, mist or gas.
Environmental precautions Do not let product enter drains.
Methods for cleaning up Keep in suitable, closed containers for disposal.

7. Handling & Storage

Handling Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Storage Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Store under inert gas. Hygroscopic.

8. Exposure Controls and Personal Protection

Contains no substances with occupational exposure limit values.

Personal protective equipment:

Respiratory protection: Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: For prolonged or repeated contact use protective gloves.

Eye protection: Safety glasses

Hygiene measures: General industrial hygiene practice.

9. Physical & Chemical Properties

Appearance

Form liquid, clear
Colour colourless

Safety data

pH no data available
Melting point 18.4 °C
Boiling point 189 °C at 1,013 hPa
Flash point 87 °C - closed cup
Ignition temperature 301 °C
Lower explosion limit 3.5 %(V)
Upper explosion limit 42 %(V)
Vapour pressure 0.55 hPa at 20 °C
Density 1.1 g/cm³
Water solubility completely miscible
Partition coefficient: n-octanol/water log Pow: -2.03
Relative vapour density 2.70 - (Air = 1.0)

10. Stability & Reactivity

Storage stability	Stable under recommended storage conditions.
Materials to avoid	Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions - Carbon oxides, Sulphur oxides

11. Toxicological Information

Acute toxicity

LD50 Oral - rat - 14,500 mg/kg
LC50 Inhalation - rat - 4 h - 40250 ppm
LD50 Dermal - rabbit - > 5,000 mg/kg

Irritation and corrosion

Skin - rabbit - Mild skin irritation - 24 h
Eyes - rabbit - Mild eye irritation

Sensitisation

no data available

Chronic exposure

Carcinogenicity - rat - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

Carcinogenicity - mouse - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Leukaemia Skin and Appendages: Other: Tumors.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Genotoxicity in vitro - mouse - lymphocyte

Cytogenetic analysis

Genotoxicity in vitro - mouse - lymphocyte

Mutation in mammalian somatic cells

Genotoxicity in vivo - rat - Intraperitoneal

Cytogenetic analysis

Genotoxicity in vivo - mouse - Intraperitoneal

DNA damage

Developmental Toxicity - mouse - Intraperitoneal

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system

Reproductive toxicity - rat - Intraperitoneal

Effects on Fertility: Abortion

Reproductive toxicity - rat - Intraperitoneal

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Reproductive toxicity - rat - Subcutaneous

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth).

Reproductive toxicity - mouse - Oral

Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Specific Developmental Abnormalities: Musculoskeletal system.

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

Target Organs Eyes, Skin.

Additional Information

RTECS: PV6210000

12. Ecological Information

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

Toxicity to fish LC50 - *Pimephales promelas* (fathead minnow) - 34,000 mg/l - 96 h

LC50 - *Oncorhynchus mykiss* (rainbow trout) - 35,000 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - *Daphnia pulex* (Water flea) - 27,500 mg/l

Toxicity to algae EC50 - *Lepomis macrochirus* (Bluegill) - > 400,000 mg/l - 96 h

Further information on ecology

no data available

13. Disposal Considerations

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14. Transport Information

ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. Regulations

Labelling according to EC Directives

Further information:

The product does not need to be labelled in accordance with EC directives or respective national laws.

16. Other Information

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

Manufacturer Disclaimer: The information provided herein is offered in good faith as accurate, but without guarantee. The information is not to be taken as all inclusive and is to be used only as a guide. Conditions of use and suitability of the product for particular uses are beyond our control. All risks of use are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending licence under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

Lab901, the Lab901 logo, ScreenTape, TapeStation and "More time for discovery" are either registered trademarks or trademarks of Lab901 Limited in the United Kingdom and/or other countries. All other trademarks are the property of their respective owners. This product contains SYBR® Gold, which is licensed from Molecular Probes Inc. under US patent number 5,658,751 for use in research and development only. ©2010 Lab901 Limited. All rights reserved.

Limited Use Label License: This product contains SYBR® Gold nucleic acid stain which is provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation) and Lab901 Limited, and the manufacture, use, sale or import of this product is subject to one or more of U.S. Patents and corresponding international equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer in conjunction with Lab901 Limited's automated gel electrophoresis system, where such research does not include testing, analysis or screening services for any third party in return for compensation on a per test basis. The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for purposes other than research, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, USA. Tel: (541) 465-8300, Fax: (541) 335-0354.

MSDS Creation Date:	07.04.10
Date of previous version:	12.10.09
Current Version:	B

1. Identification of the Substance and Company

Product Name: ScreenTape® R6K high sensitivity loading buffer kit
Product Code: ST225

Company: Lab901 Ltd
IMEX Business Centre
Loanhead
EH20 9LZ
UK.
T +44 (0) 131 448 2904
F +44 (0) 131 448 0679
W www.lab901.com

2. Composition/Data on Components

Hazardous/Non-hazardous Components

Chemical Name	CAS Number	Volume %	Kit Component(s)
Dimethyl Sulphoxide (DMSO)	67-68-5	70%	R6K high sensitivity loading buffer

3. Hazards Identification

Indication of Danger This substance is not classified as dangerous according to Directive 67/548/EEC

4. First Aid Measures

If inhaled If breathed in, move person into fresh air. If not breathing give artificial respiration
In case of skin contact Wash off with soap and plenty of water.
In case of eye contact Flush eyes with water as a precaution.
If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. Fire Fighting measures

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental Release Measures

Personal precautions Avoid breathing vapors, mist or gas.
Environmental precautions Do not let product enter drains.
Methods for cleaning up Keep in suitable, closed containers for disposal.

7. Handling & Storage

Handling Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Storage Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Store under inert gas. Hygroscopic.

8. Exposure Controls and Personal Protection

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection :Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: For prolonged or repeated contact use protective gloves.

Eye protection: Safety glasses

Hygiene measures: General industrial hygiene practice.

9. Physical & Chemical Properties

Appearance

Form liquid, clear

Colour colourless

Safety data

pH no data available

Melting point 18.4 °C

Boiling point 189 °C at 1,013 hPa

Flash point 87 °C - closed cup

Ignition temperature 301 °C

Lower explosion limit 3.5 %(V)

Upper explosion limit 42 %(V)

Vapour pressure 0.55 hPa at 20 °C

Density 1.1 g/cm³

Water solubility completely miscible

Partition coefficient: n-octanol/water log Pow: -2.03

Relative vapour density 2.70 - (Air = 1.0)

10. Stability & Reactivity

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

11. Toxicological Information

Acute toxicity

LD50 Oral - rat - 14,500 mg/kg

LC50 Inhalation - rat - 4 h - 40250 ppm

LD50 Dermal - rabbit - > 5,000 mg/kg

Irritation and corrosion

Skin - rabbit - Mild skin irritation - 24 h

Eyes - rabbit - Mild eye irritation

Sensitisation

no data available

Chronic exposure

Carcinogenicity - rat - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

Carcinogenicity - mouse - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Leukaemia Skin and Appendages: Other: Tumors.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Genotoxicity in vitro - mouse - lymphocyte

Cytogenetic analysis

Genotoxicity in vitro - mouse - lymphocyte

Mutation in mammalian somatic cells.

*Genotoxicity in vivo - rat - Intraperitoneal
Cytogenetic analysis*

*Genotoxicity in vivo - mouse - Intraperitoneal
DNA damage*

*Developmental Toxicity - mouse - Intraperitoneal
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system.*

*Reproductive toxicity - rat - Intraperitoneal
Effects on Fertility: Abortion.*

*Reproductive toxicity - rat - Intraperitoneal
Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).*

*Reproductive toxicity - rat - Subcutaneous
Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth).*

*Reproductive toxicity - mouse - Oral
Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system.*

*Potential Health Effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.
Target Organs Eyes, Skin.*

*Additional Information
RTECS: PV6210000*

12. Ecological Information

*Elimination information (persistence and degradability)
no data available*

Ecotoxicity effects

*Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 34,000 mg/l - 96 h
LC50 - Oncorhynchus mykiss (rainbow trout) - 35,000 mg/l - 96 h*

*Toxicity to daphnia and other aquatic invertebrates.
EC50 - Daphnia pulex (Water flea) - 27,500 mg/l*

Toxicity to algae EC50 - Lepomis macrochirus (Bluegill) - > 400,000 mg/l - 96 h

*Further information on ecology
no data available*

13. Disposal Considerations

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14. Transport Information

ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. Regulations

Labelling according to EC Directives

Further information:

The product does not need to be labelled in accordance with EC directives or respective national laws.

16. Other Information

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

Manufacturer Disclaimer: The information provided herein is offered in good faith as accurate, but without guarantee. The information is not to be taken as all inclusive and is to be used only as a guide. Conditions of use and suitability of the product for particular uses are beyond our control. All risks of use are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending licence under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

MSDS Creation Date: 07.04.10
Date of previous version: 12.10.09
Current Version: B

Lab901, the Lab901 logo, ScreenTape, TapeStation and "More time for discovery" are either registered trademarks or trademarks of Lab901 Limited in the United Kingdom and/or other countries. All other trademarks are the property of their respective owners. This product contains SYBR® Gold, which is licensed from Molecular Probes Inc. under US patent number 5,658,751 for use in research and development only. ©2010 Lab901 Limited. All rights reserved.

Limited Use Label License: This product contains SYBR® Gold nucleic acid stain which is provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation) and Lab901 Limited, and the manufacture, use, sale or import of this product is subject to one or more of U.S. Patents and corresponding international equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer in conjunction with Lab901 Limited's automated gel electrophoresis system, where such research does not include testing, analysis or screening services for any third party in return for compensation on a per test basis. The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for purposes other than research, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, USA. Tel: (541) 465-8300, Fax: (541) 335-0354.

Product information

ScreenTape® R6K

For Research Use Only



ST108



Intended purpose

ScreenTape R6K should be used with ScreenTape R6K loading buffer kits in the Lab901 TapeStation®. ScreenTape R6K consists of an acrylamide based matrix that has been optimised to separate and analyse RNA.

Recommended procedure

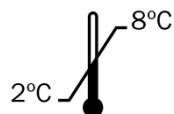
Place the tubes or microtitre plate containing your samples mixed with one of the R6K loading buffers into the TapeStation along with fresh tips following the instructions of the R6K loading buffer kit. Insert ScreenTape R6K, close the lid and press “Start”.

Quality control

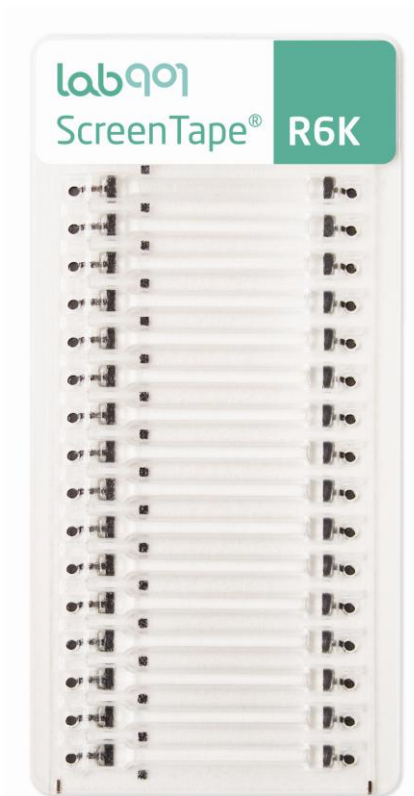
Please contact Lab901 with batch information to access the relevant QC analysis reports.



Please refer to the ScreenTape system user manual before using this product or navigate to www.lab901.com for more information including application-specific recommended procedures.



Lab901, the Lab901 logo, ScreenTape, TapeStation and “More time for discovery” are either registered trademarks or trademarks of Lab901 Limited in the United Kingdom and/or other countries. All other trademarks are the property of their respective owners.
©2010 Lab901 Limited. All rights reserved.



Photograph of ScreenTape R6K



Product information

ScreenTape® R6K standard loading buffer kit

For Research Use Only

REF ST227

R6K standard loading buffer   300µl

R6K cRNA loading buffer   300µl

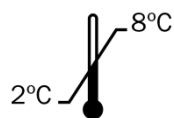
Intended purpose

The ScreenTape® R6K standard loading buffer kit contains optimised reagents for the electrophoresis of total RNA and cRNA and should be used with ScreenTape R6K in the Lab901 TapeStation®. The R6K standard loading buffer contains a single DNA fragment of 50 bases, which acts as an in lane standard. The cRNA loading buffer does not contain an in lane marker. All reagents from this kit should be stored between 2°C and 8°C.

Recommended procedure

RNA samples should be mixed 1:1 with buffers from the R6K standard loading buffer kit, heated to 72°C for three minutes and cooled for two minutes on ice before analysis on ScreenTape. The TapeStation will load from a minimum of 3µl of sample. Samples should be run within two hours of sample preparation and should be placed on ice if kept for longer. If you are using a Norgen Biotek RNA ladder (www.norgenbiotek.com - catalogue number 15006), please prepare it for analysis following the same procedure as for an RNA sample using the R6K standard loading buffer. This will ensure the presence of the 50b in-lane marker that is required for accurate sizing.


Samples containing high concentrations of RNA may need to be diluted with RNase free TE buffer before use on the TapeStation. The R6K standard loading buffer gives accurate analysis values for total RNA samples between 5 and 100ng/µl and for cRNA samples between 100ng/µl and 1000ng/µl.

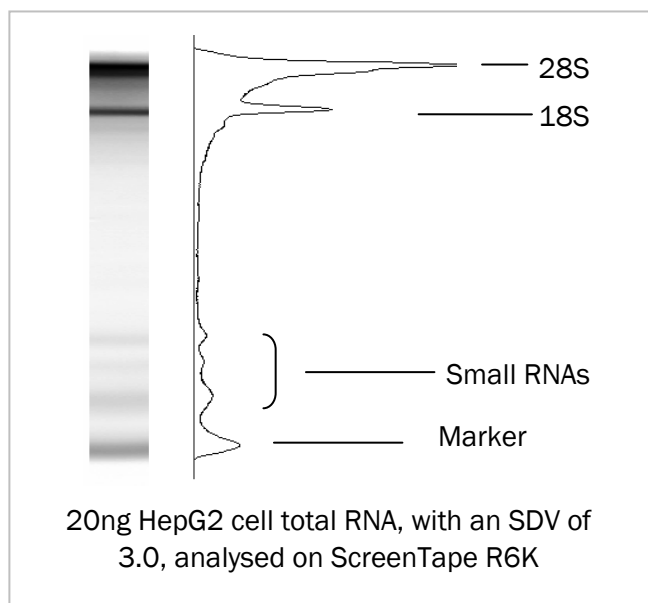


Quality control

A 10ng sample of HepG2 cell total RNA analysed on ScreenTape R6K clearly shows the 28S and 18S ribosomal subunit peaks, as well as distinctive peaks for small RNAs. The ScreenTape R6K 50b in-lane marker, a constituent of the R6K standard loading buffer, is clearly visible as a sharp peak migrating at the bottom of the gel. Buffer and salt compositions may affect the way RNA separates on ScreenTape. If unexpected profiles are obtained, try resuspending your purified RNA in a different buffer. The migration of RNA on ScreenTape can also be affected by its sequence and size. Secondary structure, for example, can dramatically affect RNA migration patterns. Therefore, we strongly recommend running your samples within two hours of the denaturation step. Any prolonged sample storage should be on ice following the denaturing step.

Please contact Lab901 with batch information for relevant QC analysis reports.

 Please refer to the ScreenTape system user manual before using this product and visit www.lab901.com for more application specific information.



Lab901, the Lab901 logo, ScreenTape, TapeStation and “More time for discovery” are either registered trademarks or trademarks of Lab901 Limited in the United Kingdom and/or other countries. All other trademarks are the property of their respective owners. This product contains SYBR® Gold, which is licensed from Molecular Probes Inc. under US patent number 5,658,751 for use in research and development only. GeneTools is a trademark of Synoptics Ltd. ©2010 Lab901 Limited. All rights reserved.

Limited Use Label License: This product contains SYBR® Gold nucleic acid stain which is provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation) and Lab901 Limited, and the manufacture, use, sale or import of this product is subject to one or more of U.S. Patents and corresponding international equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer in conjunction with Lab901 Limited’s automated gel electrophoresis system, where such research does not include testing, analysis or screening services for any third party in return for compensation on a per test basis. The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for purposes other than research, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, USA. Tel: (541) 465-8300, Fax: (541) 335-0354.



ScreenTape® R6K high sensitivity loading buffer kit

For Research Use Only

REF

ST225



300µl

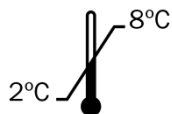
Intended purpose

The ScreenTape® R6K high sensitivity loading buffer kit contains optimised reagents for the electrophoresis of total RNA and should be used with ScreenTape R6K in the Lab901 TapeStation®. The high sensitivity loading buffer contains a single DNA fragment of 50 bases, which acts as an in-lane standard.

Recommended procedure

RNA samples should be mixed 2:1 with High Sensitivity Loading Buffer, heated to 72°C for three minutes and cooled for two minutes on ice before analysis on ScreenTape. The TapeStation will load from a minimum of 3µl of sample. Samples should be run within two hours of sample preparation, and should always be stored on ice if kept for longer. If you are using a Norgen Biotek RNA ladder (www.norgenbiotek.com - catalogue number 15006), please prepare it for analysis by mixing 1:1 with R6K Standard Loading Buffer and by following the same denaturation step as for RNA samples. This will ensure the presence of the 50b in-lane marker that is required for accurate sizing.


Samples containing high concentrations of RNA may need to be diluted with RNase free TE buffer before use on the TapeStation. The R6K high sensitivity loading buffer gives accurate analysis values for total RNA samples between 0.5 and 5ng/µl with this loading buffer, with a limit of detection of 0.1ng/µl.

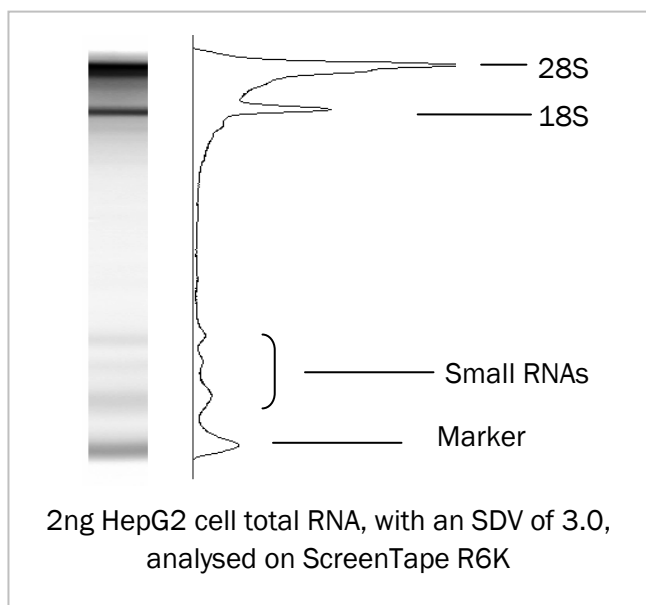


Quality control

A 2ng sample of HepG2 cell total RNA analysed on ScreenTape R6K clearly shows the 28S and 18S ribosomal subunit peaks, as well as distinctive peaks for small RNAs. The ScreenTape R6K 50b in-lane marker, a constituent of the R6K high sensitivity loading buffer, is clearly visible as a sharp peak migrating at the bottom of the gel. Buffer and salt compositions may affect the way RNA separates on ScreenTape. If unexpected profiles are obtained, try resuspending your purified RNA in a different buffer. The migration of RNA on ScreenTape can also be affected by its sequence and size. Secondary structure, for example, can dramatically affect RNA migration patterns. Therefore, we strongly recommend running your samples within two hours of denaturation. Any prolonged sample storage should be on ice following the denaturing step.

Please contact Lab901 with batch information for relevant QC analysis reports.

 Please refer to the ScreenTape System User Manual before using this product and visit www.lab901.com for more application specific information.



Lab901, the Lab901 logo, ScreenTape, TapeStation and “More time for discovery” are either registered trademarks or trademarks of Lab901 Limited in the United Kingdom and/or other countries. All other trademarks are the property of their respective owners. This product contains SYBR® Gold, which is licensed from Molecular Probes Inc. under US patent number 5,658,751 for use in research and development only. GeneTools is a trademark of Synoptics Ltd. ©2010 Lab901 Limited. All rights reserved.

Limited Use Label License: This product contains SYBR® Gold nucleic acid stain which is provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation) and Lab901 Limited, and the manufacture, use, sale or import of this product is subject to one or more of U.S. Patents and corresponding international equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer in conjunction with Lab901 Limited’s automated gel electrophoresis system, where such research does not include testing, analysis or screening services for any third party in return for compensation on a per test basis. The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for purposes other than research, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, USA. Tel: (541) 465-8300, Fax: (541) 335-0354.



