

Material Safety Data Sheet

1. Identification of the Substance and Company

Product Name: ScreenTape® D800
 Product Code: ST102

Company: Lab901 Ltd
 Unit 53, Imex Business Centre
 Bilston Glen, 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

Material Safety Data Sheet**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
<i>Target Organ effects</i>	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

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:	13.07.09
Date of previous version:	13.07.09
Current Version:	A

Material Safety Data Sheet

1. Identification of the Substance and Company

Product Name: ScreenTape® D800 Loading Buffer and D800 Ladder
Product Code: ST200 and ST202

Company: Lab901 Ltd
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 EH20 9LZ
 UK.

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 F +44 (0) 131 448 0679
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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 wash thoroughly after handling
Storage store at 4°C 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 liquid
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

Material Safety Data Sheet

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

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>	contains material that causes damage to the skin, eye, lens and cornea
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12. Ecological Information

<i>Ecotoxicity effects</i>	no information available
<i>Mobility</i>	no information available
<i>Other adverse effects</i>	no known significant effects or critical hazards

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
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15. Regulations

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

16. Other Information

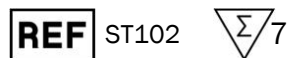
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Date of previous version:	13.07.09
Current Version:	B

Product Information

ScreenTape® D800



For Research Use Only

Intended Purpose:

The ScreenTape D800 should be used in conjunction with the D800 Ladder (ST202) and D800 Loading buffer (ST200) in the Lab901 TapeStation®. ScreenTape D800 consists of an acrylamide based matrix that has been optimised to separate double stranded DNA fragments between 35 and 800 base pairs.

Recommended Procedure:

Place the tubes/microtitre plate containing the D800 Ladder and your samples mixed with D800 Loading Buffer into the TapeStation along with fresh tips. Remove ScreenTape D800 from the foil packaging and insert into the tape holder of the TapeStation. Close the lid and press Start.



Please refer to The ScreenTape System User Manual (GeneTools Software) before using this product.

Information:

Do not use ScreenTape if the foil packaging is compromised when received. ScreenTape D800 has a shelf-life of 4 months when stored vertically in its original packaging. Once pierced, the ScreenTape must be used within 2 weeks. ScreenTape should be disposed of in the laboratory chemical waste bin when finished.

Quality Control:

Please contact Lab901 with batch information for relevant QC Analysis Reports.

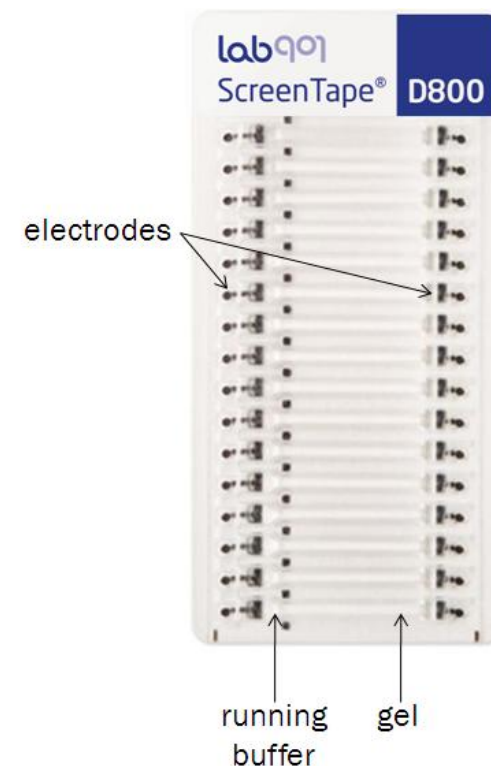
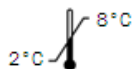


Image of ScreenTape D800



Product Information

ScreenTape® D800 Ladder

REF ST202 ∇_{Σ} 75 μ L

ScreenTape® D800 Loading Buffer

REF ST200 ∇_{Σ} 360 μ L

For Research Use Only

Intended Purpose:

The ScreenTape D800 Ladder and D800 Loading buffer should be used in conjunction with ScreenTape D800 (ST102) in the Lab901 TapeStation®. The DNA ladder consists of 7 fragments between 1000 base pairs (bp) and 25 bp and is used to create the calibration curve. The loading buffer contains 2 DNA fragments at 1000 bp and 25 bp, which are used to size the DNA fragments contained within the samples.

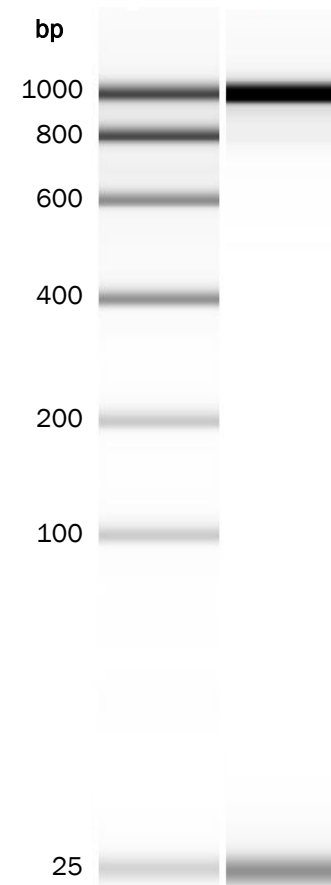
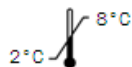
Recommended Procedure:

The D800 Ladder should be used neat. The double stranded DNA sample should be mixed 1:3 with the D800 Loading Buffer. The TapeStation will load from a minimum of 3 μ L of ladder or sample.

Samples containing low concentrations of DNA may need to be mixed 1:1 with the Loading Buffer. Samples containing high concentrations of DNA may need to be diluted with the ScreenTape DNA Sample Diluent (ST204) before mixing with Loading Buffer.

Place the tubes/microtitre plate containing the D800 Ladder and your samples mixed with D800 Loading Buffer into the TapeStation along with fresh tips. Remove ScreenTape D800 from the foil packaging and insert into the tape holder of the TapeStation. Close the lid and press Start.

 Please refer to The ScreenTape System User Manual (GeneTools Software) before using this product.



D800 Ladder & Loading Buffer separated on ScreenTape D800



Product Information



Information:

Lab901 reagents ST202 and ST200 contain SYBR® Green I nucleic acid gel stain*. ScreenTape D800 Ladder and Loading Buffer have a shelf-life of 4 months when stored in their original packaging. ST200 and ST202 should be disposed of in the laboratory chemical waste bin when finished.

Buffer and salt compositions may affect the way a sample separates on ScreenTape compared to the Ladder. If unexpected sizing is returned, try mixing the D800 Ladder with the same buffer as the samples. This should be in the same ratio as the samples have been mixed with the Loading Buffer. The migration of DNA can also be affected by sequence as well as size on polyacrylamide matrices¹. Fragments rich in A and T nucleotides can migrate slower than G and C nucleotides.

¹ Stellwagen, N.C. (1983) *Biochemistry* 22, 6186.

Quality Control:

ScreenTape analysis shows that both bands of 1000 bp and 25 bp are present in the D800 Loading Buffer. All bands between 1000 bp and 25 bp are present in the D800 Ladder. Please contact Lab901 with batch information for QC Analysis Reports.

*SYBR® Green nucleic acid stain is licensed from Molecular Probes, Inc. under US Patent No. 5,436,134 for use in research and development only. SYBR® is a registered trademark of Molecular Probes, Inc.

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