

## Material Safety Data Sheet

**1. Identification of the Substance and Company**

Product Name: ScreenTape® D1200  
 Product Code: ST103

Company: Lab901 Ltd  
 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
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**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:	07.07.09
Date of previous version:	no previous validation
Current Version:	A

## Material Safety Data Sheet

### 1. Identification of the Substance and Company

**Product Name:** ScreenTape® D1200 Loading Buffer and D1200 Ladder  
**Product Code:** ST201 and ST203  
  
**Company:** Lab901 Ltd  
 Imex Business Centre  
 Bilston Glen, Loanhead  
 EH20 9LZ  
 UK  
 T +44 (0) 131 448 2904  
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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
<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
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### 16. Other Information

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Date of previous version:	07.07.09
Current Version:	B

# Product Information

## ScreenTape® D1200

REF ST103  $\Sigma/7$


For Research Use Only

### Intended Purpose:

The ScreenTape D1200 should be used in conjunction with the D1200 Ladder (ST203) and D1200 loading buffer (ST201) in the Lab901 TapeStation®. ScreenTape D1200 consists of an acrylamide based matrix that has been optimised to separate double stranded DNA fragments between 125 and 1200 base pairs.

### Recommended Procedure:

Place the tubes/microtitre plate containing the D1200 Ladder and your samples mixed with D1200 Loading Buffer into the TapeStation along with fresh tips. Remove ScreenTape D1200 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 D1200 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 QC Analysis Reports.

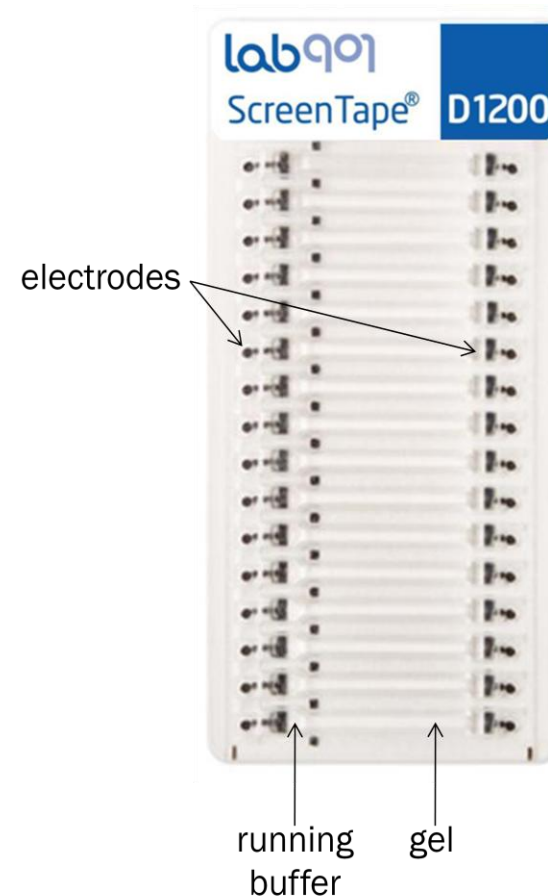


Image of ScreenTape D1200



# Product Information

## ScreenTape® D1200 Ladder

REF ST203  $\nabla \Sigma$  75  $\mu$ L

## ScreenTape® D1200 Loading Buffer

REF ST201  $\nabla \Sigma$  360  $\mu$ L

For Research Use Only

### Intended Purpose:


The ScreenTape D1200 Ladder and D1200 Loading buffer should be used in conjunction with ScreenTape D1200 (ST103) in the Lab901 TapeStation®. The DNA ladder consists of 6 fragments between 1500 base pairs (bp) and 100 bp and is used to create the calibration curve. The loading buffer contains 2 DNA fragments at 1500 bp and 100 bp, which are used to size the DNA fragments contained within the samples.

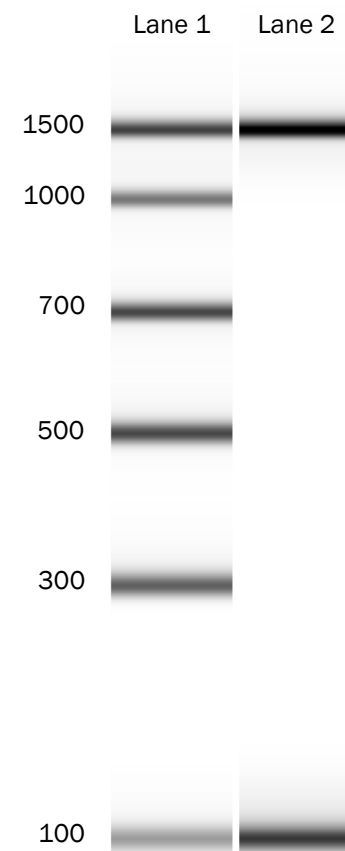
### Recommended Procedure:

The D1200 Ladder should be used neat. The double stranded DNA sample should be mixed 1:3 with the D1200 Loading Buffer. The TapeStation will load from a minimum of 3  $\mu$ L of ladder or sample.

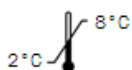
Samples containing low concentrations of DNA may need to be mixed 1:1 with the Loading Buffer. Samples containing high concentrations of DNA may need to be diluted with the ScreenTape DNA Diluent (ST204) before mixing with Loading Buffer.

Place the tubes/microtitre plate containing the D1200 Ladder and your samples mixed with D1200 Loading Buffer into the TapeStation along with fresh tips. Remove ScreenTape D1200 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.



Lane 1 contains D1200 Ladder.  
Lane 2 contains D1200 Loading Buffer separated on ScreenTape D1200



# Product Information



## Information:

Lab901 reagents ST201 and ST203 contain SYBR® Green I nucleic acid gel stain\*. ScreenTape D1200 Ladder and Loading Buffer have a shelf-life of 4 months when stored in their original packaging. ST201 and ST203 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 D1200 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 matrices<sup>1</sup>. Fragments rich in A and T nucleotides can migrate slower than G and C nucleotides.

<sup>1</sup> Stellwagen, N.C. (1983) *Biochemistry* 22, 6186.

## Quality Control:

ScreenTape analysis shows that both bands of 1500 bp and 100 bp are present in the D1200 Loading Buffer. All bands between 1500 bp and 100 bp are present in the D1200 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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