



## Safety Data Sheet

### 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name GenNext™ NGS Library Quantification Kit  
Product Code NLQ-101

#### SUPPLIER

Name TOYOBO Co., Ltd.  
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Department Life Science  
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Recommended use and restrictions on use Real-Time PCR kit (Reagent for research)

### 2 HAZARDS IDENTIFICATION

Most Important Hazards Few adverse human health effects are anticipated.

#### GHS Classification

Hazard class and category

Physical Hazards Classification not possible

#### Health Hazards

|                                      | KOD SYBR®<br>qPCR Mix          | 50× ROX<br>Reference<br>Dye    | Standard DNA<br>1~6            | 50 x Dilution<br>Buffer        | 5 x Primer<br>Mix              |
|--------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Acute toxicity - oral                | Category 5                     | Classification<br>not possible | Classification<br>not possible | Classification<br>not possible | Classification<br>not possible |
| Skin corrosion/Irritation            | Category 3                     | Classification<br>not possible | Classification<br>not possible | Classification<br>not possible | Classification<br>not possible |
| Serious eye damage/Eye<br>irritation | Classification<br>not possible | Classification<br>not possible | Classification<br>not possible | Classification<br>not possible | Classification<br>not possible |

Environmental Hazards Classification not possible

#### Label elements

<KOD SYBR® qPCR Mix>

Pictograms or symbols —

Signal word Warning

Hazard statements May be harmful if swallowed.  
Causes mild skin irritation.

#### Precautionary statement(s)

Prevention Call a POISON CENTER or doctor / physician if you feel unwell.

Response If skin irritation occurs: Get medical advice / attention.



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### 3 COMPOSITION / INFORMATION ON INGREDIENTS

|   |   |                    |
|---|---|--------------------|
| Chemical Product<br>(Substance/Preparation) | Mixture                                     |                    |
| Chemical Nature                             | Aqueous solution of enzyme, substrate, etc. |                    |
| Parts Name                                  | Main components                             | CAS No. (EC NO.)   |
| KOD SYBR® qPCR Mix                          | Tris(Hydroxymethyl)aminomethane             | 77-86-1            |
|   | Additive1                                   | Nondisclosure      |
|   | Additive2                                   | Nondisclosure      |
|   | DNA polymerase                              | (EC 2.7.7.7)       |
|   | monoclonal antibody                         | —                  |
|   | SYBR® Green I                               | 163795-75-3        |
| 50× ROX Reference Dye                       | ROX Reference Dye                           | —                  |
| Standard DNA 1                              | Deoxyribonucleic acid                       | —                  |
| Standard DNA 2                              | Deoxyribonucleic acid                       | —                  |
| Standard DNA 3                              | Deoxyribonucleic acid                       | —                  |
| Standard DNA 4                              | Deoxyribonucleic acid                       | —                  |
| Standard DNA 5                              | Deoxyribonucleic acid                       | —                  |
| Standard DNA 6                              | Deoxyribonucleic acid                       | —                  |
| 50 x Dilution Buffer                        | Tris(Hydroxymethyl)aminomethane             | 77-86-1            |
| 5 x Primer Mix                              | Deoxyribonucleic acid                       | —                  |
| Components Contributing to the Hazard       |   |                    |
| Common Chemical Name<br>(or Generic Name)   | Additive1                                   | Additive2          |
| Synonyms                                    | Nondisclosure                               | Nondisclosure      |
| Contained                                   | KOD SYBR® qPCR                              | KOD SYBR®          |
| Parts:Percentage                            | Mix : <3%                                   | qPCR Mix :<br><15% |
| Chemical formula                            | Nondisclosure                               | Nondisclosure      |
| CAS No.                                     | Nondisclosure                               | Nondisclosure      |
| Concentration                               | <3%   | <15%               |

### 4 FIRST-AID MEASURES

|              |   |
|--------------|---|
| Inhalation   | Remove person to fresh air. Call a doctor if you feel unwell.   |
| Skin Contact | Wash with clean water, immediately.   |
| Eye Contact  | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>If eye irritation persists: Get medical advice / attention. |
| Ingestion    | If swallowed: Rinse mouth. Do NOT induce vomiting.<br>If indisposition continues, seek medical attention.   |

### 5 FIRE-FIGHTING MEASURES

|                             |  |
|-----------------------------|--|
| Extinguishing Media         | Water, Carbon Dioxide, Foam, Dry Chemical Powder   |
| Protection of fire-fighters | Fire-fighting should be done from the windward side of fire area. Fire-fighters should wear proper protective equipment in case of large scale fire. |

### 6 ACCIDENTAL RELEASE MEASURES

|                           |  |
|---------------------------|--|
| Personal Precautions      | Wear protective gear to avoid eye/skin contact and inhalation.   |
| Environmental Precautions | Avoid disposition to the environment.  |
| Methods for Cleaning up   | Use cloth, paper or anything similar to soak up the solution leaking out of the container.<br>Take up under vacuum |

### 7 HANDLING AND STORAGE

|                       |  |
|-----------------------|--|
| HANDLING              |  |
| Technical Measures    | Wear protective equipments and avoid contact with eyes and skin. Handle with ventilation and local exhaust system. |
| Precautions           | Avoid substance contact .After handling, wash hands with clean water.  |
| Safe Handling Advice  | Always keeping things tidy and in order, and keep laboratory Clean.  |
| STORAGE               |  |
| Technical Measures    | Store in the original  |
| Storage Conditions    | Store at about -20°C   |
| Incompatible Products | Oxidizers  |
| Packaging Materials   | Store in the original  |



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### 8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING MEASURES Set up good ventilation and exhaust system in the work area.

Control Parameter

| Limit Values | Additive1       | Additive2       |
|--------------|-----------------|-----------------|
| JSOH OEL     | Not established | Not established |
| ACGIH TLV    | Not established | Not established |
| OSHA PEL     | Not established | Not established |

### PERSONAL PROTECTIVE EQUIPMENT

|                          |  |
|--------------------------|--|
| Respiratory Protection   | Wear a dust mask.                          |
| Hand Protection          | Chemical safety gloves.                    |
| Eye Protection           | Chemical safety                            |
| Skin and Body Protection | Long sleeves to prevent contact with skin. |

### 9 PHYSICAL AND CHEMICAL PROPERTIES

|                           |  |
|---------------------------|--|
| Physical State            | KOD SYBR® qPCR Mix, 50× ROX Reference Dye, Standard DNA1, Standard DNA2, Standard DNA3, Standard DNA4, Standard DNA5, Standard DNA6, 50 x Dilution Buffer and 5 x Primer Mix are liquid at ambient temperatures and freeze at -20°C. |
| Colour                    | None   |
| Odour                     | None   |
| pH                        | 7.0-9.0  |
| Flash Point               | No flammability due to aqueous solution, but additive2 whose flash point 131°C may stay behind after volatilization KOD SYBR® qPCR Mix.  |
| Boiling Point             | No Data  |
| Melting Point             | No Data  |
| Decomposition Temperature | No Data  |
| Specific Gravity          | 1.0-1.2  |
| Solubility                | Soluble in water   |

### 10 STABILITY AND REACTIVITY

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Stability                       | Stable at -20°C                      |
| Possible Hazardous Reactions    | None                                 |
| Conditions to Avoid             | Strong heat and Direct               |
| Material to Avoid               | strong oxidizers and strong reducers |
| Hazardous Decomposition Product | No information available             |

### 11 TOXICOLOGICAL INFORMATION

<KOD SYBR® qPCR Mix>

|  |  |
|--|--|
| Acute Toxicity   | No data available  |
| Local Effects  | May cause eye and skin irritation. May cause respiratory tract irritation. |
| Toxicological information on the component of this product |  |

|                                   | Additive1          | Additive2              |
|-----------------------------------|--------------------|------------------------|
| Acute toxicity (LD50)             | Oral-rat: 50mg/kg* | Oral-mouse:            |
| Skin corrosion/Irritation         | Category 2         | ification not possible |
| Serious eye damage/Eye irritation | Category 3         | ification not possible |

\*Acute toxicity (LD50) of Additive is estimated from similar agent.

### 12 ECOLOGICAL INFORMATION

|                           |   |
|---------------------------|---|
| Ecotoxicity               | No data available                                       |
| Persistence/Degradability | Enzyme, protein and nucleotide are biodegradable.       |
| Mobility                  | Soluble in water and diffusible into water environment. |



## Safety Data Sheet

### 13 DISPOSAL CONSIDERATIONS

- Waste from Residues      Dispose of in accordance with all applicable local and national laws and regulations.  
Contaminated Packaging      Dispose of in accordance with all applicable local and national laws and regulations.

### 14 TRANSPORT INFORMATION

- International Regulations  
UN Classification Number      Not classified  
Follow all of the laws and regulations in your respective country.  
Specific Precautions      To prevent packages from breaking, handle with care. Store at about -20°C when it is

### 15 REGULATORY INFORMATION

Follow all of the laws and regulations in your country.

### 16 OTHER INFORMATION

- Notice      This product is sold for research purposes only . It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The information in this SDS, to the best of our knowledge, is accurate and correct. However, TOYOBO makes no warranty and assumes no liability whatsoever in connection with any use of this information. The information shall not be taken as being all inclusive and is to be used only a guide. All materials and mixtures may be present unknown hazards and should be used with caution. The SDS is subject to revision as new information becomes available.