

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)  
Product code : 07960689001

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

Recommended restrictions on use : For professional users only.

#### 1.3 Details of the supplier of the safety data sheet

Company : Roche Diagnostics Deutschland GmbH  
-  
Sandhoferstrasse 116  
68305 Mannheim  
Deutschland

Telephone : +496217590  
Telefax : +496217592890  
Responsible Department : +49(0)621-759-4223  
E-mail address : info.dia-sds@roche.com

#### 1.4 Emergency telephone number

In case of emergencies: : Central Works Security +49(0)621-759-2203  
Roche Diagnostics GmbH  
  
Centre for detoxification: : Mainz +49(0)6131-19240  
Munich +49(0)89-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word :

Warning

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

Hazard statements : **H371** May cause damage to organs.

Precautionary statements : **Prevention:**  
**P260** Do not breathe mist or vapours.  
**P264** Wash skin thoroughly after handling.  
**P270** Do not eat, drink or smoke when using this product.

**Response:**  
**P308 + P311** IF exposed or concerned: Call a POISON CENTER/ doctor.

**Storage:**  
**P405** Store locked up.

**Disposal:**  
**P501** Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### KAPA hgDNA Quantification Primer Premixes (10X)

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### Components

Remarks : No hazardous ingredients

### KAPA hgDNA Quantification Standards

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### Components

Remarks : No hazardous ingredients

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

### KAPA SYBR Fast ROX Low qPCR Master Mix (2X)

#### Classification (REGULATION (EC) No 1272/2008)

Specific target organ toxicity - single exposure, Category 2 H371: May cause damage to organs.

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
tetramethylammonium chloride	75-57-0 200-880-8 01-2119970924-26	Acute Tox. 2; H300 Acute Tox. 3; H311 Skin Irrit. 2; H315 STOT SE 1; H370 Aquatic Chronic 2; H411  Acute toxicity estimate  Acute oral toxicity: 47 mg/kg Acute dermal toxicity: 200,02 mg/kg	$\geq 1,0 - < 2,5$
Nucleotidyltransferase, deoxyribonucleate	9012-90-2 232-741-2	Not classified	$< 0,1$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Roche**

## **KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)**

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.  
Rinse mouth with water.

### **4.2 Most important symptoms and effects, both acute and delayed**

None known.

### **4.3 Indication of any immediate medical attention and special treatment needed**

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

### **5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire-fighting : No information available.

### **5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.  
Refer to protective measures listed in sections 7 and 8.

### **6.2 Environmental precautions**

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : See label, package insert or internal guidelines

Storage class (TRGS 510) : 12, Non Combustible Liquids

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Laboratory chemicals

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### **KAPA hgDNA Quantification Primer Premixes (10X)**

Contains no substances with occupational exposure limit values.

##### **KAPA hgDNA Quantification Standards**

Contains no substances with occupational exposure limit values.

##### **KAPA SYBR Fast ROX Low qPCR Master Mix (2X)**

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
glycerol	56-81-5	AGW (Inhalable fraction)	200 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category): 2;(I)				
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
dimethyl sulfoxide	67-68-5	AGW	50 ppm 160 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category): 2;(I)				
Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, harm to the unborn child can not be excluded				
Nucleotidyltransferase, deoxyribonucleate	9012-90-2	IOEL	0,00006 mg/m <sup>3</sup>	Roche Industrial Hygiene Committee (RIHC)

#### 8.2 Exposure controls

##### Engineering measures

No data available

##### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Use eye protection according to EN 166.

##### Hand protection

In case of contact through splashing:  
Material : Nitrile rubber  
Break through time : > 30 min  
Glove thickness : > 0,11 mm

In case of full contact:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

Material : butyl-rubber  
Break through time : > 480 min  
Glove thickness : > 0,4 mm

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### **KAPA *hgDNA* Quantification Primer Premixes (10X)**

Physical state : liquid  
Colour : colourless  
Odour : odourless  
Odour Threshold : No data available  
Melting point/range : No data available  
Boiling point/boiling range : No data available  
Upper explosion limit / Upper flammability limit : No data available  
Lower explosion limit / Lower flammability limit : No data available  
Flash point : does not flash  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

pH	:	7,7
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	0,996 g/cm <sup>3</sup>
Relative vapour density	:	No data available

### ***KAPA hgDNA Quantification Standards***

Physical state	:	liquid
Colour	:	colourless
Odour	:	odourless
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point		does not flash
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	7,7



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	0,996 g/cm <sup>3</sup>
Relative vapour density	:	No data available

### **KAPA SYBR Fast ROX Low qPCR Master Mix (2X)**

Physical state	:	liquid
Colour	:	light orange
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point		does not flash
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	9,0
Viscosity		
Viscosity, dynamic	:	No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## **KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)**

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

Viscosity, kinematic	:	No data available
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	1,033 g/cm <sup>3</sup>
Relative vapour density	:	No data available

### 9.2 Other information

#### ***KAPA hgDNA Quantification Primer Premixes (10X)***

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Flammability (liquids)	:	Does not sustain combustion. The product is not flammable.
Self-ignition	:	Not applicable
Evaporation rate	:	No data available

#### ***KAPA hgDNA Quantification Standards***

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Flammability (liquids)	:	Does not sustain combustion. The product is not flammable.
Self-ignition	:	Not applicable
Evaporation rate	:	No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

### **KAPA SYBR Fast ROX Low qPCR Master Mix (2X)**

Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Flammability (liquids)	:	Does not sustain combustion. The product is not flammable.
Self-ignition	:	Not applicable
Evaporation rate	:	No data available

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

### **10.2 Chemical stability**

Stable under normal conditions.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions : No dangerous reaction known under conditions of normal use.  
No decomposition if stored and applied as directed.

### **10.4 Conditions to avoid**

Conditions to avoid : Exposure to light.

### **10.5 Incompatible materials**

Materials to avoid : Strong oxidizing agents

### **10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

## **SECTION 11: Toxicological information**

### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

#### **KAPA hgDNA Quantification Primer Premixes (10X)**

##### **Acute toxicity**

Not classified based on available information.

##### **Skin corrosion/irritation**

Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## **KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)**

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

## ***KAPA hgDNA Quantification Standards***

### **Acute toxicity**

Not classified based on available information.

### **Skin corrosion/irritation**

Not classified based on available information.

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

## KAPA SYBR Fast ROX Low qPCR Master Mix (2X)

### Acute toxicity

Not classified based on available information.

### Components:

#### tetramethylammonium chloride:

Acute oral toxicity : LD50 Oral (Rat): 47 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute toxicity estimate: 47 mg/kg  
Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rabbit): > 200 - < 500 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

Acute toxicity estimate: 200,02 mg/kg  
Method: Calculation method

### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### tetramethylammonium chloride:

Result : Irritating to skin.

### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

#### tetramethylammonium chloride:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

### Respiratory sensitisation

Not classified based on available information.

#### Components:

##### **tetramethylammonium chloride:**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 429

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### **tetramethylammonium chloride:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Result: negative  
  
Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Escherichia coli  
Result: negative

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

May cause damage to organs.

#### Components:

##### **tetramethylammonium chloride:**

Exposure routes : Ingestion  
Target Organs : Central nervous system  
Assessment : Causes damage to organs.

### Nucleotidyltransferase, deoxyribonucleate:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

Not classified based on available information.

#### Components:

##### **Nucleotidyltransferase, deoxyribonucleate:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

### Repeated dose toxicity

#### Components:

##### tetramethylammonium chloride:

Species	: Rat
NOAEL	: 5 mg/kg
Application Route	: Oral
Method	: OECD Test Guideline 421
GLP	: yes

### Aspiration toxicity

Not classified based on available information.

#### Components:

##### Nucleotidyltransferase, deoxyribonucleate:

No data available

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
------------	---

## KAPA hgDNA Quantification Primer Premixes (10X)

### Endocrine disrupting properties

#### Product:

Assessment	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
------------	---

## KAPA hgDNA Quantification Standards

### Endocrine disrupting properties

#### Product:

Assessment	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
------------	---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

### KAPA SYBR Fast ROX Low qPCR Master Mix (2X)

#### Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

##### Components:

##### **tetramethylammonium chloride:**

Remarks : Other dangerous properties can not be excluded.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### KAPA hgDNA Quantification Primer Premixes (10X)

No data available

#### KAPA hgDNA Quantification Standards

No data available

#### KAPA SYBR Fast ROX Low qPCR Master Mix (2X)

##### Components:

##### **tetramethylammonium chloride:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 462 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,16 mg/l  
Exposure time: 11 d  
GLP: yes

NOEC (Daphnia magna (Water flea)): 0,03 mg/l  
Exposure time: 11 d  
GLP: yes

LC50 (Daphnia magna (Water flea)): 1,86 mg/l  
Exposure time: 48 h  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 115 mg/l



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

### Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

### Nucleotidyltransferase, deoxyribonucleate:

#### Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

### 12.2 Persistence and degradability

#### **KAPA hgDNA Quantification Primer Premixes (10X)**

No data available

#### **KAPA hgDNA Quantification Standards**

No data available

#### **KAPA SYBR Fast ROX Low qPCR Master Mix (2X)**

##### Components:

##### **tetramethylammonium chloride:**

Biodegradability : Remarks: Expected to be biodegradable

### 12.3 Bioaccumulative potential

#### **KAPA hgDNA Quantification Primer Premixes (10X)**

No data available

#### **KAPA hgDNA Quantification Standards**

No data available

#### **KAPA SYBR Fast ROX Low qPCR Master Mix (2X)**

##### Components:

##### **tetramethylammonium chloride:**

Partition coefficient: n-octanol/water : Remarks: No data available

##### **Nucleotidyltransferase, deoxyribonucleate:**

Partition coefficient: n-octanol/water : Remarks: No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

octanol/water

### 12.4 Mobility in soil

#### **KAPA hgDNA Quantification Primer Premixes (10X)**

No data available

#### **KAPA hgDNA Quantification Standards**

No data available

#### **KAPA SYBR Fast ROX Low qPCR Master Mix (2X)**

No data available

### 12.5 Results of PBT and vPvB assessment

#### **KAPA hgDNA Quantification Primer Premixes (10X)**

Not relevant

#### **KAPA hgDNA Quantification Standards**

Not relevant

#### **KAPA SYBR Fast ROX Low qPCR Master Mix (2X)**

Not relevant

### 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **KAPA hgDNA Quantification Primer Premixes (10X)**

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **KAPA hgDNA Quantification Standards**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **KAPA SYBR Fast ROX Low qPCR Master Mix (2X)**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Roche**

## **KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)**

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **12.7 Other adverse effects**

#### ***KAPA hgDNA Quantification Primer Premixes (10X)***

No data available

#### ***KAPA hgDNA Quantification Standards***

No data available

#### ***KAPA SYBR Fast ROX Low qPCR Master Mix (2X)***

No data available

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

- |                        |   |   |
|------------------------|---|---|
| Product                | : | Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company.<br>Can be disposed as waste water, when in compliance with local regulations. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>Do not re-use empty containers.               |

## **SECTION 14: Transport information**

### **14.1 UN number or ID number**

Not regulated as a dangerous good

### **14.2 UN proper shipping name**

Not regulated as a dangerous good

### **14.3 Transport hazard class(es)**

Not regulated as a dangerous good

### **14.4 Packing group**

Not regulated as a dangerous good

### **14.5 Environmental hazards**

Not regulated as a dangerous good

### **14.6 Special precautions for user**

- |         |   |  |
|---------|---|--|
| Remarks | : | Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR |
|---------|---|--|

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

### 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso III: Directive : Not applicable  
2012/18/EU of the European  
Parliament and of the Council  
on the control of major-  
accident hazards involving  
dangerous substances.

Water hazard class (Germany) : WGK 1 slightly hazardous to water

### **KAPA hgDNA Quantification Primer Premixes (10X)**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

### **The components of this product are reported in the following inventories:**

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.

Primer / Oligonucleotide / Probe

NZIoC : On the inventory, or in compliance with the inventory

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
TCSI	: Not in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
TECI	: Not in compliance with the inventory
Volatile organic compounds	: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable

### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

### KAPA hgDNA Quantification Standards

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable

### The components of this product are reported in the following inventories:

AIIC	: On the inventory, or in compliance with the inventory
------	---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

DSL	: All components of this product are on the Canadian DSL
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
TECI	: Not in compliance with the inventory
Volatile organic compounds	: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0,05 %

### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

### KAPA SYBR Fast ROX Low qPCR Master Mix (2X)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation	: Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

(Annex XIV)

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.  2'-deoxyadenosine 5'-(tetrahydrogen triphosphate) 2'-deoxyguanosine 5'-(tetrahydrogen triphosphate) thymidine 5'-(tetrahydrogen triphosphate) Cytidine 5'-(tetrahydrogen triphosphate), 2'-deoxy- Antibodies SYBR Green I nucleic acid gel stain 6-Carboxy-X-rhodamine Nucleotidyltransferase, deoxyribonucleate
NZIoC	: Not in compliance with the inventory
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
TCSI	: Not in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
TECI	: Not in compliance with the inventory
Volatile organic compounds	: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 8 %

### Labelling (REGULATION (EC) No 1272/2008)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Roche

## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H371 May cause damage to organs.

Precautionary statements :

**Prevention:**

P260 Do not breathe mist or vapours.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

**Response:**

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

75-57-0

tetramethylammonium chloride

### 15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

## SECTION 16: Other information

### Full text of H-Statements

- H300 : Fatal if swallowed.
- H311 : Toxic in contact with skin.
- H315 : Causes skin irritation.
- H370 : Causes damage to organs.
- H411 : Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

- Acute Tox. : Acute toxicity
- Aquatic Chronic : Long-term (chronic) aquatic hazard
- Skin Irrit. : Skin irritation
- STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA Human Genomic DNA Quantification and QC Kit (ROX Low)

Version  
2.0

Revision Date:  
07.02.2022

Date of last issue: 16.08.2021  
Date of first issue: 18.05.2016

the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN / 2104