

Material Safety Data Sheet

Prepared according to EC Directive 91/155 EC Date: 01/08/10

PRODUCT NAME	CATALOGUE NUMBERS	COMPONENTS	
SampleIN™ Direct PCR Kit	DPK010S	1. ALLin™ HS Red Taq Mastermix, 2X	
	DPK0101	2. DPK Lysis Buffer, 5X	
	DPK0105	3. DPK Protease Buffer, 10X	

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II. HAZARDS IDENTIFICATION

Component: 1. ALLin™ HS Red Taq Mastermix, 2X

Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Void

Information concerning particular hazards for human and environment: The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system: The classification was made according to the latest editions of the EU lists, and expanded upon from company and literature data.

Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

Safety phrases: Not applicable.

Other hazards: Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

III. COMPOSITION/INGREDIENT INFORMATION

Chemical characterization: Mixtures

Dangerous components:

None

Additional information: Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

IV. FIRST AID MEASURES

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints. **After skin contact:** Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Induce vomiting and call for medical help.

Information for doctor, most important symptoms and effects, both acute and delayed: No further relevant information available. **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.





V. FIREFIGHTING MEASURES

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. **Special hazards arising from the substance or mixture:** No further relevant information available.

Protective equipment: No special measures required.

VI. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Not required.

Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up: Absorb with liquid - binding material (sand, diatomite, acid binders,

universal binders, sawdust). Dispose contaminated material as waste according to Section XIII.

Reference to other sections:

See Section VII for information on safe handling.

See Section VIII for information on personal protection equipment.

See Section XIII for disposal information.

VII. HANDLING/STORAGE

Precautions for safe handling: No special measures required.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities: No special conditions.

Storage requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s): No further relevant information available

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems: No further data.

Control parameters ·

Components with limit values that require monitoring at the workplace: None

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment

General protective and hygienic measures: The usual precautionary measures should be adhered to when handling chemicals.

Breathing equipment: Not required. **Protection of hands:** Protective gloves.

Material of gloves: Synthetic gloves.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and

has to be observed.

Eye protection: Safety glasses



IX. PHYSICAL AND CHEMICAL PROPERTIES

Form: Solution
Colour: Red

Odour: Odourless. **Odour threshold:** Not determined.

pH-value: Not determined.

Melting point/Melting range: undetermined

Boiling point/Boiling range: 100°C

Flash point: Not applicable.

Flammability (solid, gaseous): Not applicable. **Ignition temperature:** Not determined.

Decomposition temperature: Not determined.

Self-igniting: Product is not self igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits: Not determined **Vapour pressure at 20°C:** 23 hPa

Density: Not determined

Relative density: Not determined. Vapour density: Not determined. Evaporation rate: Not determined.

Solubility in / Miscibility with Water: Fully miscible

Segregation coefficient (n-octanol/water): Not determined.

Viscosity dynamic: Not determined.

Kinematic: Not determined. **Solvent content:** Water

Other information: No further relevant information available.

X. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known. **Conditions to avoid:** No further relevant information available. **Incompatible materials:** No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known

XI. TOXICOLOGICAL INFORMATION

Acute toxicity: LD/LC50 values that are relevant for classification: No special data available.

Primary irritant effect:

On the skin: No effects known.
On the eye: No effects known.
Sensitization: No effects known.
Potential health effects
Inhalation: No effects known.

Ingestion: No effects known.

Additional toxicological information: The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.



XII. ECOLOGICAL INFORMATION

Acquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behaviour in environmental systems. Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information. General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment: PBT: Not applicable. vPvB: Not applicable.

Other adverse effects: No further relevant information available.

XIII. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents

XIV. TRANSPORT INFORMATION

Maritime transport IMDG

Marine pollutant: No

Special precautions for user: Not applicable.

Transport/Additional information: Not dangerous according to the above specifications. **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

XV. REGULATORY INFORMATION

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

National regulations ·

Technical instructions (air): Class Share in % NK 10-20

Water hazard class: No hazard.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

XVI. OTHER INFORMATION

MSDS has been prepared in accordance with EC Directive 91/155 EC Date: 01/08/10. We believe the information herein is correct as of the date hereof but we do not provide a warranty of any kind. The purchaser of highQu product is responsible himself for ensuring that, where applicable, existing laws and guidelines are observed.

highQu GmbH is not liable for any damage resulting from improper handling or from contact with the products. Special permission has been granted in accordance with EU Directive 88/379, Article 9, which permit small packages of up to 125 ml or containing materials that are harmful to health or irritant to be unlabeled with the hazard identification information given in the safety data sheet.



Material Safety Data Sheet

Prepared according to EC Directive 91/155 EC Date: 01/08/10

PRODUCT N	AME	CATALOGUE NUMBER	S COMPO	COMPONENTS	
SampleIN™ Direct PCR Kit		DPK010S	1.	1. ALLin™ HS Red Taq Mastermix, 2X	
		DPK0101	2.	DPK Lysis Buffer, 5X	
		DPK0105	3.	DPK Protease Buffer, 10X	
I. COMPANY MANUFACTURER/SUPPLIER AND CONTACT IN CASE OF EMERGENCY					

highQu GmbH Nelkenstrasse 5 76703 Kraichtal Germany

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II. HAZARDS IDENTIFICATION

Component: 2. DPK Lysis Buffer, 5X

Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Void

Information concerning particular hazards for human and environment: The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system: The classification was made according to the latest editions of the EU lists, and expanded upon from company and literature data.

Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

Safety phrases: Not applicable.

Other hazards: Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

III. COMPOSITION/INGREDIENT INFORMATION

Chemical characterization: Mixtures

Dangerous components:

None

Additional information: Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

IV. FIRST AID MEASURES

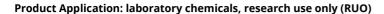
General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints. **After skin contact:** Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Induce vomiting and call for medical help.

Information for doctor, most important symptoms and effects, both acute and delayed: No further relevant information available. **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.





V. FIREFIGHTING MEASURES

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. **Special hazards arising from the substance or mixture:** No further relevant information available.

Protective equipment: No special measures required.

VI. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Not required.

Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up: Absorb with liquid - binding material (sand, diatomite, acid binders,

universal binders, sawdust). Dispose contaminated material as waste according to Section XIII.

Reference to other sections:

See Section VII for information on safe handling.

See Section VIII for information on personal protection equipment.

See Section XIII for disposal information.

VII. HANDLING/STORAGE

Precautions for safe handling: No special measures required.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities: No special conditions.

Storage requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s): No further relevant information available

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems: No further data.

Control parameters ·

Components with limit values that require monitoring at the workplace: None

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment

General protective and hygienic measures: The usual precautionary measures should be adhered to when handling chemicals.

Breathing equipment: Not required. **Protection of hands:** Protective gloves.

Material of gloves: Synthetic gloves.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and

has to be observed.

Eye protection: Safety glasses



IX. PHYSICAL AND CHEMICAL PROPERTIES

Form: Solution **Colour:** Colourless

Odour: Odourless. Odour threshold: Not determined.

pH-value: Not determined.

Melting point/Melting range: undetermined

Boiling point/Boiling range: 100°C

Flash point: Not applicable.

Flammability (solid, gaseous): Not applicable. **Ignition temperature:** Not determined.

Decomposition temperature: Not determined.

Self-igniting: Product is not self igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits: Not determined **Vapour pressure at 20°C:** 23 hPa

Density: Not determined

Relative density: Not determined.
Vapour density: Not determined.
Evaporation rate: Not determined.

Solubility in / Miscibility with Water: Fully miscible

Segregation coefficient (n-octanol/water): Not determined.

Viscosity dynamic: Not determined.

Kinematic: Not determined. **Solvent content:** Water

Other information: No further relevant information available.

X. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known. **Conditions to avoid:** No further relevant information available. **Incompatible materials:** No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known

XI. TOXICOLOGICAL INFORMATION

Acute toxicity: LD/LC50 values that are relevant for classification: No special data available.

Primary irritant effect:

On the skin: No effects known.
On the eye: No effects known.
Sensitization: No effects known.
Potential health effects
Inhalation: No effects known.

Ingestion: No effects known.

Additional toxicological information: The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.



XII. ECOLOGICAL INFORMATION

Acquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behaviour in environmental systems. Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information. General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment: PBT: Not applicable. vPvB: Not applicable.

Other adverse effects: No further relevant information available.

XIII. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents

XIV. TRANSPORT INFORMATION

Maritime transport IMDG

Marine pollutant: No

Special precautions for user: Not applicable.

Transport/Additional information: Not dangerous according to the above specifications. **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

XV. REGULATORY INFORMATION

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

National regulations -

Technical instructions (air): Class Share in % NK 10-20

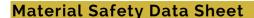
Water hazard class: No hazard.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

XVI. OTHER INFORMATION

MSDS has been prepared in accordance with EC Directive 91/155 EC Date: 01/08/10. We believe the information herein is correct as of the date hereof but we do not provide a warranty of any kind. The purchaser of highQu product is responsible himself for ensuring that, where applicable, existing laws and guidelines are observed.

highQu GmbH is not liable for any damage resulting from improper handling or from contact with the products. Special permission has been granted in accordance with EU Directive 88/379, Article 9, which permit small packages of up to 125 ml or containing materials that are harmful to health or irritant to be unlabeled with the hazard identification information given in the safety data sheet.



Prepared according to EC Directive 91/155 EC Date: 01/08/10

PRODUCT NAME	CATALOGUE N	UMBERS COMPO	COMPONENTS	
SampleIN™ Direct l	PCR Kit DPK010S	1.	ALLin™ HS Red Taq Mastermix, 2X	
	DPK0101	2.	DPK Lysis Buffer, 5X	
	DPK0105	3.	DPK Protease Buffer, 10X	
I. COM	IPANY MANUFACTURER/SUPPLIER AN	D CONTACT IN CASE O	FEMERGENCY	

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Germany

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II. HAZARDS IDENTIFICATION

Component: 3. DPK Protease Buffer, 10X

Classification according to Regulation (EC) No 1272/2008:

DANGER



H319 – Skill IIII. 2 H319 – Eye Irrit. 2 H334 – Resp. Sens. 1 H335 – STOT SE 3

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

IRRITANT



Information concerning particular hazards for human and environment:

According to Regulation (EC) No1272/2008:

- Skin Irritant (Category 2)
- Eye Irritant (Category 2)
- Respiratory Sensitivity (Category 1)
- Specific Target Organ Toxicity (Single exposure) [Respiratory tract irritation] (Category 3)

Pictogram:





Signal words: Warning. Danger.

Hazard statements:

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.

Precautionary statements:

P261S Avoid breathing dust

P280sh Wear protective gloves/eye protection

P302+352 IF ON SKIN: Wash with plenty of soap and water

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.

Hazard symbol(s):

Xi Sensitising

R phrase(s):

- R36/37/38 Irritating to eyes, respiratory system and skin.
- R42 May cause sensitisation by inhalation.



III. COMPOSITION/INGREDIENT INFORMATION

Chemical characterization: Mixtures

Dangerous components:

Proteinase K. 5-10% EC-No. 254-457-8

Additional information: Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

IV. FIRST AID MEASURES

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints. **After skin contact:** Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Induce vomiting and call for medical help.

Information for doctor, most important symptoms and effects, both acute and delayed: No further relevant information available. **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

V. FIREFIGHTING MEASURES

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. **Special hazards arising from the substance or mixture:** No further relevant information available.

Protective equipment: No special measures required.

VI. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Not required.

Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up: Absorb with liquid - binding material (sand, diatomite, acid binders,

universal binders, sawdust). Dispose contaminated material as waste according to Section XIII.

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Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities: No special conditions.

Storage requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s): No further relevant information available

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems: No further data.

Control parameters -

Components with limit values that require monitoring at the workplace: None

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment

General protective and hygienic measures: The usual precautionary measures should be adhered to when handling chemicals.

Breathing equipment: Not required. **Protection of hands:** Protective gloves.

Material of gloves: Synthetic gloves.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and

has to be observed.

Eye protection: Safety glasses

highQu professionally simple

Product Application: laboratory chemicals, research use only (RUO)

IX. PHYSICAL AND CHEMICAL PROPERTIES

Form: Solution
Colour: Colourless

Odour: Odourless. Odour threshold: Not determined.

pH-value: Not determined.

Melting point/Melting range: undetermined

Boiling point/Boiling range: 100°C

Flash point: Not applicable.

Flammability (solid, gaseous): Not applicable. **Ignition temperature:** Not determined.

Decomposition temperature: Not determined.

Self-igniting: Product is not self igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits: Not determined **Vapour pressure at 20°C:** 23 hPa

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Potential health effects
Inhalation: No effects known.

Inhalation: No effects known. **Ingestion:** No effects known.

Additional toxicological information: The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.



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XIII. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

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Marine pollutant: No

Special precautions for user: Not applicable.

Transport/Additional information: Not dangerous according to the above specifications. **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

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