

Material Safety Data Sheet

According to EC directive 2001/58/EC

Reviewed on 30 / 03 / 2020

1. Information about chemicals and companies

product information

Product Name : **LIIF™ COVID-19 Real-time RT-PCR Kit**
Recommended use of the product : Sputum, bronchoalveolar lavage fluid (BAL) in patients with suspected respiratory infections, or nasopharyngeal swab (NS) and oropharyngeal swab (OS) collected simultaneously in the upper respiratory tract A medical device for in vitro diagnosis to help diagnose new coronavirus infection (COVID-19) by qualitatively detecting genes (RdRP gene, E gene, and N gene) of new coronavirus (2019-nCoV) from a sample
Usage restrictions : Do not use for purposes other than diagnostic reagents.
INtRON Biotechnology, Inc.
Manufacturer : 137 Sagimakgol-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do (Sangdaewon-dong, Central Induspia 701 ~ 704)
Tel : 031-739-5678
Fax : 031-739-5072
Responsible department 031-739-5066
Emergency contact information 031-739-5071

2. Name and content of ingredients

- Content of ingredients

- 2X RT-PCR mix : 560uL x 2 tubes
- RdRP/E Detection Solution : 280uL x 1tube
- N/RNaseP Detection Solution : 280uL x 1tube
- Positive Control : 150uL x 3tubes

- 2X RT-PCR mix

- Appearance: colorless liquid
- Labelling : 2X RT-PCR mix
- ingredient : 100% RealMOD Probe W² 2X qRT-PCR mix

- RdRP/E Detection Solution

- Appearance: pale pink liquid
- Labelling : RdRP/E Detection Solution
- Content of ingredients : < 0.005% RdRP primers, < 0.005% RdRP probe, < 0.005% E primer, < 0.005% E Probe, Water, sterile, Nuclease free (99 % <)

- N/RNaseP Detection Solution

- Appearance: pale pink liquid
- Labelling : RdRP/E Detection Solution
- Content of ingredients : < 0.005% N Primer, < 0.005% N Probe, < 0.005% RNase P primers, < 0.005% RNase P Probe, Water, sterile, Nuclease free (99 % <)

- Various primers / probes (Genotech): Cas. No. : Not applicable

- Content of ingredients

- dA(bz) amidite : Cas. No. : 98796-53-3
- dC(bz) amidite : Cas. No. : 110522-84-4
- dG(bz) amidite : Cas. No. : 93183-15-4
- dT(bz) amidite : Cas. No. : 98796-51-5

- Positive control

- Appearance: colorless liquid
- Labeling: Not applicable
- Content of ingredients : < 0.001% Non-infectious plasmid DNA(microbial) containing E, RdRP, N partial primer/probe binding sequences

- < Recombinant clone >

- RdRP Positive DNA : Cas. No. : Not applicable
- E Positive DNA : Cas. No. : Not applicable
- N Positive DNA : Cas. No. : Not applicable
- RNaseP Standard DNA (INtRON Biotechnology, Inc.) : Cas. No. : Not applicable

- DNase / RNase free Water

- Appearance: colorless liquid
- Labeling: Not applicable

3. Risk hazard

Human or environmental hazard recommendations

This product is classified as no risk according to European Regulations 67/548 / EC and 1999/45 / EC.

Possible health effects

Eyes: May cause eye irritation.

Skin: Contact may be irritating to the skin.

Inhalation: No toxicity expected from inhalation

4. First aid measures

inhale

If side effects occur, move to uncontaminated area. If not breathing, give artificial respiration. Get medical attention immediately.

Skin contact

Take off contaminated clothing and shoes and immediately wash with soap and water for at least 15 minutes. Seek medical attention if necessary. Dry and wash contaminated clothing and shoes before reuse.

Eye contact

Wash your eyes for at least 15 minutes with plenty of water. Seek medical attention immediately.

Intake

If swallowed in large quantities, seek medical attention.

5. Fire-fighting measures

peptic

Particulate powder extinguishing agent, carbon dioxide, water, general foam.

Large fire

Use common fire extinguishing agents or sprinkle with fine water spray.

Fire fighting

Move containers from fire area if you can do it without risk. Do not scatter spilled material with high-pressure water streams. Build an embankment for further processing. Use an extinguishing agent adapted to the surrounding fire. Avoid inhalation of material itself or combustion products. Keep in the wind and avoid the lowlands.

6. What to do in case of a leak

Occupational spillage: Stop leak if worker can do so without risk.

Small spills: Absorb with sand or other non-combustible material. Collect spilled material in suitable container. Block access by non-affiliated personnel, isolate hazardous areas and deny entry.

7. Handling and storage

Storage: Store and handle in accordance with current laws and regulations. Store in a closed container. Store in a cool, dry place. Store in a well-ventilated area. Separate from prohibited substances.

8. Exposure prevention and personal protection

Wear appropriately approved gas mask, chemical-durable gloves, goggles and other protective clothing.

Use safety shower and eye protection solution

When using, use only chemical hood.

Avoid contact with eyes, skin and clothing.

Breathing protection: Not required.

Gout: general ventilation

Protective gloves: Protective gloves used in general laboratories.

Eye protection: Wear regular eye protection goggles.

9. Physical and chemical properties

2X RT-PCR Mix

Physical state: liquid / suspension, frozen under storage temperature

Solubility in water: recording.

RdRP/E Detection solution

Physical state: liquid / suspension, frozen under storage temperature

Solubility in water: recording.

N/RNaseP Detection solution

Physical state: liquid / suspension, frozen under storage temperature

Solubility in water: recording.

Positive control

Physical state: liquid, frozen under storage temperature

Solubility in water: recording.

DNase/RNase free water

Physical state: liquid, frozen under storage temperature

10. Stability and reactivity

Stability: Stable.

Reactivity: Stable in frozen state.

Conditions to avoid: Strong oxidizing agents

Decomposition products: carbon monoxide, carbon dioxide

Polymerization reaction: No polymerization.

11. Toxicological information

No information.

12. Environmental impact

Additional environmental information: No information.

13. Notes on disposal

Products: Disposal laws according to each region should be followed. Dispose of it through a chemical disposal company.

14. Transport information

No information.

15. Legal Regulations

This product is classified as no risk according to European Regulations 67/548 / EC and 1999/45 / EC.

16. Other notes

If the consumer uses this product for any purpose other than its intended purpose, we are not responsible for the results. Consumers are responsible for assessing that all regulations regarding human protection and the environment are observed when using and storing products.

Source of data

Water, sterile, Nuclease free (BioSolution), Real-Time RT-PCR mixture (iNtRON Biotechnology, Inc.), MSDS of various primers and probes (Genotech)