

## Safety Data Sheet

### Section 1. Product and Company Identification

**Product Name** QCell-Pro One-Step qRT-PCR Kit  
**Catalog #** K5055200, K5055400  
**Manufacturer** Biochain Institute, Inc.  
39600 Eureka Drive  
Newark, CA 94560  
USA  
510.783.8588 or 1.888.762.2568  
Email: [info@biochain.com](mailto:info@biochain.com)  
**Emergency Phone #** Contact your local hazardous material control center.  
Call 911 in case of medical emergency.

### Section 2. Hazards Identification

Review approved and the most current institutional guideline, protocol, SOP(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this BCI product.

**Routes of Entry:** Skin Absorption (**No**); Dermal/skin contact (**Yes**); Eye contact (**Yes**); Inhalation (**No**); Ingestion (**Yes**); Chronic Exposure (**No**).

**Potential Acute Health Effects:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Slightly hazardous in case of skin contact (irritant). Hazardous in case of eye contact (irritant). Slightly hazardous in case of ingestion.

**Carcinogenic Effects:** Not listed by NTP, IARC or OSHA.

**Mutagenic Effects:** Not available.

**Teratogenic Effects:** Not available.

### Section 3. Composition and Information on Ingredients

Components	Part No.
1. Cell Lysis Buffer	K5055200-1, K5055400-1
2. Pro qRT-PCR Reaction Mixture, 5x (containing Hotstart Taq DNA Polymerase)	K5055200-2, K5055400-2
3. Reverse Transcriptase / RNase Inhibitor Mixture	K5055200-3, K5055400-3
4. ROX Reference Dye	K5055200-4, K5055400-4
5. Nuclease-Free PCR Grade Water	K5055200-5, K5055400-5

Components 1 – 5: Irritating to eyes, respiratory system and skin.

### Section 4. First Aid Measures

**Skin:** Wash exposed skin with mild soap and water. Get medical attention if irritation develops or persists.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

**Ingestion:** If affected person is conscious, give plenty of water to drink. Seek medical attention. Wash contaminated clothing before reuse.

### Section 5. Fire Fighting Measures

**Flammability of the Product:** Not flammable.

**Flash Points:** Not available.

**Fire Fighting Procedures:**

**Small Fire:** Use DRY chemical powder.

**Large Fire:** Use water spray, fog or foam. Do not use water hose.

## Section 6. Accidental Release Measures

### **Small Spill and Leak:**

Absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

## Section 7. Handling and Storage

**Handling:** Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

**Storage:** store at -20°C and protected from light.

## Section 8. Exposure Controls/Personal Protection

Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Eyes and Face:** Splash goggles.

**Body:** Lab coat.

**Respiratory:** Be sure to use NIOSH/MSHA approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

**Hands:** Gloves.

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and Chemical Properties

Components/Item	Physical state	Color	odor
1. Cell Lysis Buffer	Liquid	Clear	None
2. Pro qRT-PCR Reaction Mixture, 5x (containing Pro Dye and Hotstart Taq DNA polymerase)	Liquid	Clear	None
3. Reverse Transcriptase / RNase Inhibitor Mixture	Liquid	Clear	None
4. ROX Reference Dye (50x)	Liquid	Red	None
5. Nuclease-Free PCR Grade Water	Liquid	Clear	None

## Section 10. Stability and Reactivity

**Stability and Reactivity:** The product is stable

**Incompatibility with Various Substances** No decomposition if used according to specifications. No dangerous reactions known.

## Section 11. Toxicological Information

**Primary Irritant Effects:** Harmful if ingested.

**On the Eye:** Cause eye irritation.

**Sensitization:** No sensitizing effects known.

## Section 12. Ecological Information

Data not yet available.

## Section 13. Disposal Considerations

### **Waste Information:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to hazardous waste disposers.

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## **Section 14. Transport Information**

Contact BCI for all transport information.

## **Section 15. Regulatory Information**

*EINECS*: Not available.

*European Information*: Irritating to eyes, skin, and respiratory system. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## **Section 16. Other Information**

The information contained in this SDS was obtained from sources we believe are reliable. However, the above information is provided without warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.