



BIOCELL CORPORATION LTD

## MATERIAL SAFETY DATA SHEET

### 1. Product Identification

Product Name: **Protein Carbonyl Enzyme Immuno-assay Kit**

Manufacturer:

BioCell Corporation Ltd  
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Papatoetoe  
Auckland  
New Zealand.

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### 2. Components

<u>Name</u>	<u>Quantity</u>
96-well microtitre plate	1 each
EIA Buffer powder	9.57g
Blocking agent	225 $\mu$ l
Dinitrophenylhydrazine	1.2ml
Guanidine hydrochloride reagent	9.5ml
Anti-DNP-biotin antibody	29 $\mu$ l
Streptavidin-HRP	29 $\mu$ l
Chromatin reagent	20ml
Stopping agent	12ml
Oxidized protein standards (5)	<20 $\mu$ l each
Carbonyl control samples (3)	<20 $\mu$ l each

### 3. Hazards

It is recommended that all laboratory personnel follow standard safety procedures when handling this product. Safety procedures should include wearing eye protection, gloves and protective clothing. Direct physical contact with all components in this product should be avoided.

## Known hazardous components

<u>Name</u>	<u>CAS #</u>	<u>% Wt</u>
Sodium chloride (Buffer powder)	7647-14-5	85
Potassium di-hydrogen phosphate (Buffer)	7778-77-0	15
Tween 20 (Blocking agent)	9005-64-5	30
Guanidine hydrochloride (Guanidine reagent)	50-01-1	57
Potassium hydroxide (Guanidine reagent)	1310-58-3	5
Phosphoric acid (Guanidine reagent)	7664-38-2	3
1-methyl-2-pyrrolidone (Chromatin)	872-50-4	<7
Propylene Glycol (Chromatin)	57-55-6	<7
Sulfuric acid (Stopping agent)	7664-93-9	14

Remaining components are classified as non-hazardous due to their nature and/or concentration in solution.

**Danger!** Some components of this kit contain materials which

- are corrosive;
- can cause burns or irritation to skin, eyes, respiratory and gastrointestinal tracts;
- are damaging to all body tissues;
- are harmful if inhaled.

Potential Health Effects:

Inhalation: Irritation to respiratory tract. Symptoms include coughing, shortness of breath.

Ingestion: Toxic. Corrosive to mucous membranes. General gastro-intestinal upset can be expected.

Skin contact: Burns or irritation to skin. Symptoms include redness, itching, pain.

Eye contact: Irritation, possibly corrosive to eye tissues. Tearing, redness, pain are symptoms.

## **4. First Aid Measures**

Skin contact: Immediately flush with plenty of water.

Eye contact: Immediately flush with plenty of water for at least 15 minutes.  
Seek medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: Do Not Induce Vomiting! Give large amounts of water, immediately get medical attention.

## **5. Fire Fighting Measures**

Not considered to be a fire or explosive hazard.

Precautions during fire: Avoid inhalation of fumes. Move container from fire area if possible.

Fire extinguishing media: Use any means suitable for extinguishing surrounding fire.

## **6. Accidental Release Measures**

Ventilate area. Wipe or pick up materials, place in sealed container and dispose of in accordance with local regulations. Immediately after the material pick up is complete, wash the spill area with soap and water.

## **7. Handling and Storage**

This kit should be only handled and used by trained personnel, using eye protection and protective clothing and gloves, following Good Laboratory Practice.

This kit should be stored as recommended on the product leaflet. All components should be kept in tightly closed containers.

## **8. Exposure Controls / Personal Protection**

Refer to Sections 6 and 7.

## **9. Stability and Reactivity**

Stability: The kit components are stable until the expiration date indicated on the label under the specified storage conditions.

Reactivity: There are no known reactivities with these components.

## **10. Toxicological Information**

Contains toxic materials. Harmful by ingestion, inhalation and skin exposure.  
No known carcinogenic effects.

## **11. Ecological Information**

None available.

## **12. Disposal Considerations**

Must be disposed of in accordance with local environmental control regulations.

## **13. Other Information**

The above information does not purport to be all-inclusive and should be used as a guide.

