| Date:  31st October ‘15 | Assessed by:  Nick Weise | Checked / Validated by: | Location:  Manchester Museum |  | Review date:  Before British Science Week (Spring 2016) |
| --- | --- | --- | --- | --- | --- |
| Task / premises:  **General information**  - Proteins: the building blocks of life & Enzymes: nature’s catalysts  The MIB is hosting 2 stands at the Manchester Science Spectacular as part of Manchester Science Week to demonstrate activities based around proteins and specifically enzymes to groups of school children. | | | | | |

TUOM_4COL**Manchester Institute of Biotechnology – Risk assessment**

| Activity | Hazard | Who might be harmed and how | Existing measures to control risk | Risk rating | Result |
| --- | --- | --- | --- | --- | --- |
| Making “amino acids” with molymod and pipe cleaners / beads | Small pieces may cause choke hazard if swallowed. | Students if swallow small parts | Verbal warning not to eat | L | A |
| Practical demonstrations using Hydrogen Peroxide | Harmful, corrosive | Staff members demonstrating; visitors | Substance handled as a dilute (3%) solution only. Solutions prepared by trained staff before event in MIB. The solution will be transported to the event location in secondary containment (sealed plastic box). Only trained staff will perform this demonstration (visitors will observe ONLY). The following items of PPE must be worn by all staff involved: BS EN374 compliant gloves (nitrile). Users found not to be wearing PPE when the risk assessment states that it must be worn will be subject to the MIB compliance policy. | L | A |
| Glucose test involving ABTS [2,2’-Azino-bis(3-ethylbenzothiazoline-6-sulfonic acid) diammonium salt] | Irritating to eyes, respiratory system and skin. | Staff members demonstrating; visitors | Substance handled by visitors as a dilute solution only. Solutions prepared by trained staff only during the event from solid pellets (not powder form to mitigate risk of inhalation). | L | A |

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| **Authorisation by PI**  **I confirm that I have considered and understand the experiment and the associated hazards. I am satisfied that all of the hazards have been identified and that the control measures to be followed will reduce the risks to acceptable levels.**  **Print name: Signed:**  **Date:** |