***Endorsed by:***

***Dean/Director/ Deputy Dean/***

***Deputy Director***

[](http://www.google.com.my/imgres?imgurl=http://mushroomresearchcenter.net63.net/logo/UPM.jpg&imgrefurl=http://mushroomresearchcenter.net63.net/partners.html&h=236&w=500&sz=33&tbnid=-j_6HaVO2vx-kM:&tbnh=62&tbnw=132&prev=/search?q=upm+logo&tbm=isch&tbo=u&zoom=1&q=upm+logo&docid=7dWSFiko9-6gBM&hl=en&sa=X&ei=v_2xT_f7Be2SiQfQgKX2CA&ved=0CHUQ9QEwBg&dur=4301)

**Institutional ANIMAL CARE AND USE COMMITTEE**

**Universiti Putra Malaysia**

***SCIENTIFIC MERIT REVIEW***

***ON THE USE OF ANIMALS FOR RESEARCH***

*This completed Animal Utilisation Protocol (AUP) needs to be submitted to The Secretariat, Institutional Animal Care and Use Committee, c/o Unit of Ethics Research, Level 4, Office of the Deputy Vice Chancellor (Research & Innovation), Universiti Putra Malaysia, and approved by UPM IACUC prior to commencement of the animal study.*

*Direct all enquiries to* [*iacuc@upm.edu.my*](mailto:iacuc@upm.edu.my) *or 03-97691431.*

|  |
| --- |
| **PROJECT TITLE:** |
|  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **BACKGROUND AND OBJECTIVES** | | **Yes** | **No** | **N/A** |
| 1. | Background and objectives are acceptable and clearly specified |  |  |  |
| 2. | Objectives are achievable without using live animals (i.e. *in vitro*, cell culture, cadaver etc.) |  |  |  |
| 3. | Impact/benefits to animal and/or human are clearly specified |  |  |  |
| Please comments on **originality and significance** of the study: | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ANIMAL USE** | | **Yes** | **No** | **N/A** |
| 1. | Choice of species and/or strain for proposed project is justified |  |  |  |
| 2. | Choice of condition/disease model for proposed project is justified |  |  |  |
| 3. | Proposed number of groups and animals for the study are clearly justified |  |  |  |
| Please comments on **animal use of the study**: | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SCIENTIFIC EXPERIMENTAL DESIGN** | | **Yes** | **No** | **N/A** |
| 1. | Experimental animal design to achieve objectives is scientifically acceptable |  |  |  |
| 2. | Research protocol/procedure is concise and clearly described |  |  |  |
| 3. | Invasive procedure/surgery is scientifically justifiable |  |  |  |
| 4. | Usage of compound and drug with dosage, volume and route of administration is appropriately specified |  |  |  |
| 5. | Provision on monitoring of clinical condition is clearly described |  |  |  |
| 6. | Humane endpoint of animals is scientifically acceptable |  |  |  |
| Please comments on **scientific experimental design** of the study: | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **POTENTIAL RISKS** | | **Yes** | **No** | **N/A** |
| 1. | Potential risks (hazard, adverse effect, etc) to personnel, animals and environment are clearly addressed |  |  |  |
| 2. | Risk/benefit ratio for the study is adequately evaluated |  |  |  |
| Please comments on possible **potential risks** of the study (if any): | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CONCLUSION** | | **Yes** | **No** | **N/A** |
| **1.** | Scientific merit for the project proposal is justifiable and acceptable |  |  |  |
| **2.** | More information is required to evaluate this proposal |  |  |  |
| Please comments on **overall project** proposal: | | | | |

**Peer Reviewed by**

**Signature :**

**Name :**

**Stamp**

**Date :**