



**Australian Government**

**Department of Health and Ageing**

**Office of the Gene Technology Regulator**

# **Licence for dealings involving an intentional release of a GMO into the environment**

**Licence No.: DIR 082/2007**

**Licence holder: The Victorian Department of Primary Industries**

**Title: Limited and controlled release of perennial ryegrass and tall fescue genetically modified for altered fructan and lignin metabolism**

Issued: 29 July 2008

**More information about the decision to issue this licence is contained in the Risk Assessment and Risk Management Plan prepared in connection with the assessment of the application for the licence. This document can be obtained from the Office of the Gene Technology Regulator website at <http://www.ogtr.gov.au>, or by telephoning the Office on 1800 181 030.**

## **Gene Technology Regulation in Australia**

Australia's gene technology regulatory system operates as part of an integrated legislative framework. The *Gene Technology Act 2000* (Cth) and corresponding state and territory legislation form a substantial part of a nationally consistent regulatory system controlling the development and use of genetically modified organisms (GMOs).

This licence is issued by the Gene Technology Regulator in accordance with the Gene Technology Act 2000 and, as applicable, Corresponding State Law.

The Gene Technology Regulator is required to consult with, and take into account advice from a range of key stakeholders, including other regulatory authorities, on risks to human health and safety and to the environment in assessing applications for dealings involving the intentional release of GMOs into the Australian environment.

Other agencies that also regulate GMOs or GM products include Food Standards Australia New Zealand, Australian Pesticide and Veterinary Medicine Authority, Therapeutic Goods Administration, National Industrial Chemicals Notification and Assessment Scheme, National Health and Medical Research Council and Australian Quarantine and Inspection Service. Dealings conducted under any licence issued by the Regulator may also be subject to regulation by one or more of these agencies. It is recommended that the licence holder consult the relevant agency (or agencies) about their regulatory requirements.

The licence authorises the licence holder and persons covered by the licence to conduct specified dealings with the genetically modified organism(s) listed in Attachment B of this licence.

Dealings permitted by this licence may also be subject to the operation of State legislation declaring areas to be GM, GM free, or both, for marketing purposes.

### **Note about where dealings with GMOs are being undertaken pursuant to this licence**

Information about where the GMOs have been planted pursuant to this licence can be found in a separate document entitled 'DIR 082/2007 Site Details'. This document can be viewed by accessing the document on the OGTR website at <http://www.ogtr.gov.au/internet/ogtr/publishing.nsf/Content/dir082-2007>.

# Proposed licence conditions

## **Section 1 Interpretations and Definitions**

1. This licence does not authorise dealings with GMOs that are otherwise prohibited as a result of the operation of State legislation declaring areas to be GM, GM free, or both, for marketing purposes.
2. In this licence:
  - (a) unless defined otherwise in this licence, words and phrases used in this licence have the same meaning as they do in the Act and the Regulations;
  - (b) words importing a gender include any other gender;
  - (c) words in the singular include the plural and words in the plural include the singular;
  - (d) words importing persons include a partnership and a body whether corporate or otherwise;
  - (e) references to any statute or other legislation (whether primary or subordinate) are a reference to a statute or other legislation of the Commonwealth of Australia as amended or replaced from time to time and equivalent provisions, if any, in corresponding State law, unless the contrary intention appears;
  - (f) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form in respect of that word has a corresponding meaning;
  - (g) specific conditions prevail over standard conditions to the extent of any inconsistency.

In this licence:

**'Act'** means the *Gene Technology Act 2000* (Cth) or the corresponding State legislation under which this licence is issued.

**'Annual Report'** means a written report provided to the Regulator within ninety (90) days of each anniversary of issue of this licence containing all the information required by this licence to be provided in the Annual Report.

**'Clean'** (or **'Cleaned'**), as the case requires, means:

- (a) in relation to a Place specified in this licence as requiring Cleaning, the Destruction of the GMOs and Plant Material in that Place, to the reasonable satisfaction of the Regulator; or
- (b) in relation to Equipment, the removal and Destruction of the GMOs and Plant Material from the Equipment, to the reasonable satisfaction of the Regulator.

**'Destroy'**, (or **'Destroyed'** or **'Destruction'**) means, as the case requires, killed by one or more of the following methods:

- (a) stalk pulling;
- (b) uprooting
- (c) ploughing;
- (d) burning/incineration;
- (e) treatment with herbicide;
- (f) hand weeding;
- (g) autoclaving.

*Note: 'As the case requires' has the effect that, depending on the circumstances, one or more of these techniques may not be appropriate. For example, in the case of killing the remains of harvest of the GMOs, treatment of post harvest remains by herbicide would not be a sufficient mechanism.*

**'Equipment'** includes, but is not limited to, harvesters, seeders, storage equipment, transport equipment (eg bags, containers, trucks), clothing and tools.

**'GM'** means genetically modified.

**'GMOs'** means the genetically modified organisms the subject of the dealings authorised by this licence.

**'Harvest'** means removal of the GMOs from the Location into a PC2 glasshouse

**'Isolation Zone'** means, in respect of a Location, an area of land extending outwards at least two hundred and fifty (250) metres in all directions from the outer edge of the Monitoring Zone.

**'Location'** means an area of land where the GMOs or other plants may be intentionally planted and grown pursuant to this licence, but does not include the Monitoring Zone or Isolation Zone.

**'Monitoring Zone'** means an area of land extending outwards at least two (2) metres in all directions from the outer edge of a Location.

**'Natural Waterways'** means waterways other than irrigation channels, holding dams or storage ponds used to collect water runoff from irrigated areas.

**'OGTR'** means the Office of the Gene Technology Regulator.

**'Perennial ryegrass'** means plants of the species *Lolium perenne* L.

**'Personal Information'** means information or an opinion (including information forming part of a database), whether true or not, and whether recorded in a material form or not, about an individual whose identity is apparent, or can reasonably be ascertained, from the information or opinion.

'Place' means an area required to be cleaned and/or inspected under the conditions of this licence.

'Plant Material' means any part of the GM or non-GM perennial ryegrass and tall fescue plants grown at the Location, whether viable or not, including, but not limited to, seed, stubble and pollen, whether from the plant itself or derived from or produced by the plant.

'Related Species' means plants in the genera *Lolium* or *Festuca*.

'Sign-off' means a notice in writing from the Regulator, in respect of a Site, that post harvest inspection conditions no longer apply in respect of that Site.

'Site' means the aggregate of all Places for the Location.

'Tall fescue' means plants of the species *Lolium arundinaceum* (Schreb.) Darbysh.

'Volunteer Plants' means progeny of the GMOs or non-GM perennial ryegrass and tall fescue grown at the Location, or regrowth of previous GM or non-GM perennial ryegrass and tall fescue plants.

## **Section 2 General conditions**

### **Duration of Licence**

3. This licence remains in force until it is suspended, cancelled or surrendered. No dealings with GMOs are authorised during any period of suspension.

### **Holder of Licence**

4. The holder of this licence ('the licence holder') is the Victorian Department of Primary Industries.

### **Project Supervisor**

5. The Project Supervisor in respect of this licence is a person named in Attachment A of the licence.

6. The licence holder must immediately notify the Regulator in writing if any of the contact details of the Project Supervisor change.

### **No dealings with the GMOs except as authorised by this licence**

7. Persons covered by this licence must not deal with the GMOs except as expressly permitted by this licence.

### **Persons covered by this GMO licence**

8. The persons covered by this licence are the licence holder and employees, agents or contractors of the licence holder and other persons who are, or have been, engaged or otherwise authorised by the licence holder to undertake any activity in connection with the dealings authorised by this licence.

### ***Informing people of their obligations***

9. The licence holder must inform any person covered by this licence, to whom a particular condition of this licence applies, of the following:

- (a) the particular condition (including any variations of it);
- (b) the cancellation or suspension of the licence;
- (c) the surrender of the licence.

10. If a particular condition, including any variation of it, applies to a person with respect to a particular dealing, the licence holder must not permit a person covered by this licence to conduct that dealing unless,

- (a) the person has been informed of the condition, including any variation of it, and
- (b) the licence holder has obtained from the person a signed and dated statement that the person,
  - i) has been informed by the licence holder of the condition and, when applicable, its variation, and
  - ii) has understood and agreed to be bound by the condition, or its variation, and
  - iii) has not conducted the dealing without being informed of the condition, or its variation

11. The licence holder must provide the Regulator, on the Regulator's written request, with copies of the signed and dated statements referred to in the immediately preceding condition.

12. The licence holder must notify the project supervisor and all persons covered by a licence that Personal Information collected by the licence holder which is relevant to the administration and/or enforcement of the licence may be released to the Regulator.

### ***Applicant to notify of circumstances that might affect suitability***

13. The licence holder must immediately, by notice in writing, inform the Regulator of:

- (a) any relevant conviction of the licence holder occurring after the commencement of this licence;
- (b) any revocation or suspension of a licence or permit held by the licence holder under a law of the Australian Government, a State or a foreign country, being a law relating to the health and safety of people or the environment;
- (c) any event or circumstances occurring after the commencement of this licence that would affect the capacity of the holder of this licence to meet the conditions in it.

### **Licence holder must provide information on matters related to suitability**

14. The licence holder must provide information related to the licence holder's ongoing suitability to hold a licence when requested to do so in writing by the Regulator and must provide the information within a time period stipulated by the Regulator.

### **Additional information to be given to the Regulator**

15. It is a condition of this licence that the licence holder informs the Regulator if the licence holder:

- (a) becomes aware of additional information as to any risks to the health and safety of people, or to the environment, associated with the dealings authorised by the licence; or
- (b) becomes aware of any contraventions of the licence by a person covered by the licence; or
- (c) becomes aware of any unintended effects of the dealings authorised by the licence.

*Note: The Act requires, for the purposes of the above condition that:*

- (a) *the licence holder will be taken to have become aware of additional information if he or she was reckless as to whether such information existed; and*
- (b) *the licence holder will be taken to have become aware of contraventions, or unintended effects, if he or she was reckless as to whether such contraventions had occurred, or such unintended effects existed.*

16. The licence holder must provide the information required by paragraphs (a), (b) and (c) of the immediately preceding condition to the Regulator as soon as practically and reasonably possible, and must also include the information in the Annual Report.

### **People dealing with GMOs must allow auditing and monitoring of the dealing**

17. If a person is authorised by this licence to deal with the GMOs and a particular condition of this licence applies to the dealing by that person, the person must allow the Regulator, or a person authorised by the Regulator, to enter premises where the dealing is being undertaken, for the purposes of auditing or monitoring the dealing.

18. The licence holder must be able to access and control all Sites to the extent necessary to comply with this licence, for the duration of the life of the licence.

### **Remaining an Accredited organisation**

19. The licence holder must, at all times, remain an accredited organisation in accordance with the Act and comply with its instrument of accreditation.

### **Notices**

20. The licence holder must provide all notices to the Regulator required to be given by this licence and each notice must be provided in the manner required by Section 6 of this licence.

## **Section 3 Growing the GMOs**

### ***GMOs covered by this licence***

21. The GMOs covered by this licence are described in Attachment B of the licence.

### ***Permitted dealings***

22. The permitted dealings with the GMOs are to plant, grow, propagate, harvest and conduct experiments with the GMOs, and the possession, supply, use, transport and disposal of the GMOs for the purpose of any of the permitted dealings with the GMOs, or in the course of any of these dealings.

### ***Non-GM Plants***

23. Non-GM perennial ryegrass and tall fescue may be planted and grown at the Location, but if planted, must be handled and controlled as if it were the GMO (ie subject to other applicable conditions elsewhere in this licence).

24. Plant Material from non-GM perennial ryegrass and tall fescue grown at a Location must be handled and controlled as if it were Plant Material from the GMO (ie subject to other conditions elsewhere in this licence).

### ***Limits - locations, growing season and size of trial***

25. With respect to the permitted dealings described in condition 22, planting, growing, propagating and harvesting must only be undertaken between July 2008 and July 2010, inclusive, within the Victorian shire of Southern Grampians.

26. Intentional planting of the GMO must occur at no more than one Location with a maximum area of 800 m<sup>2</sup> in each year.

### ***Notice of intention to plant and of planting***

27. The licence holder must, in the manner required by the condition in condition 65, give advance notice to the Regulator of an intention to plant the GMOs.

28. The licence holder must, in the manner required by the condition in condition 66, give notice to the Regulator of the actual date of planting the GMOs.

### ***Controls – planting and growing***

29. The outer edge of the Location must not be within fifty (50) metres of a Natural Waterway.

30. The Location must be surrounded by a fence at least one (1) metre high with a lockable gate, which must be locked except when the Location is accessed by persons covered by this licence. The fences must be inspected regularly and any damage allowing access by large animals, such as livestock, repaired immediately and reported to the Regulator.

31. The Location must be surrounded by a Monitoring Zone and an Isolation Zone.

32. The Isolation Zone must be planted with a dense crop of *Triticale sp.*

33. If there are any bare areas (eg. vehicle tracks) within the Isolation Zone these must be kept free of plants that will inhibit the identification of Volunteers, including any Related Species, while the GMOs are being grown at the Location. Measures to achieve this may include, but are not limited to, mechanical cultivation, hand pulling and/or application of herbicide.

235. The Monitoring Zone must be kept free of plants that will inhibit the identification of stoloniferous growth of the GMOs, while the GMOs are being grown at the Location within it. Measures to achieve this may include, but are not limited to, mechanical cultivation, hand pulling and/or application of herbicide.

34. The GMOs must be Harvested from the Location prior to flowering. If flowering occurs at the Location then the plants must be Harvested immediately, and the date of flowering reported to the Regulator immediately.

## **Section 4 Use of Plant Material**

### **Experiment and storage**

35. Experiments and/or analysis of Plant Material is only permitted if:

- (a) the experiment and/or analysis is a notifiable low risk dealing; and
- (b) the experiment and/or analysis does not involve the feeding of the Plant Material to humans or animals.

*Note: A dealing will only be a notifiable low risk dealing if:*

- (a) *an Institutional Biosafety Committee has been asked to assess whether the proposed dealing is a notifiable low risk dealing; and*
- (b) *the Committee has assessed the proposed dealing to be a notifiable low risk dealing; and*
- (c) *the person who proposes to undertake the proposed dealing and the project supervisor for the proposed dealing have been notified that the Committee;*
  - i) has assessed the proposed dealing to be a notifiable low risk dealing; and*
  - ii) considers that the personnel to be involved in the proposed dealing have appropriate training and experience.*

36. Any Plant Material that is collected for experiments and/or analysis may be transported off Site to:

- (a) a facility certified by the Regulator to PC2; or
- (b) a facility approved in writing by the Regulator and signed so as to indicate that GM Plant Material is stored within the facility

and may be experimented on and/or analysed and must be Destroyed as soon as practicable.

### ***Plant Material not to be used in food***

37. The GMOs and Plant Material must not be used, sold or otherwise disposed of for any purpose which would involve or result in their use as food for animals or humans.

### ***Section 5 Transport, Disposal and Cleaning***

38. If GMOs are Destroyed, all conditions applying to post-harvest apply equally to post-Destruction.

#### ***Notice of harvest and cleaning following harvest***

39. The licence holder must, in the manner required by the condition in paragraph 67, provide the Regulator with a notice of intention to harvest the GMOs at the Location.

40. The licence holder must, in the manner required by the condition in paragraph 68, provide the actual date or dates of harvesting of the GMOs at the Location.

41. The licence holder must, in the manner required by the condition in paragraph 69, give notice to the Regulator of the date on which Cleaning of the Place concluded.

#### ***Harvest and post-harvest procedures***

42. If the GMOs or Plant Material from a Location are harvested, they must be harvested by hand.

43. Harvested GMOs or Plant Material from a Location must be Destroyed or Transported to a PC2 glasshouse as soon as practical after harvest

*Note: For the purpose of this licence, harvested by hand refers to the removal of the plants from the field by hand with the aid of an implement which may include, but is not limited to, a trowel or fork.*

#### ***Transportation of Plant Material***

44. Plant Material may only be transported to the extent necessary to store it, Destroy it, export it, Clean it from Equipment, relocate it to a facility approved by the Regulator or to a physical containment level 2 (PC2) facility, or relocate it to the Site from a facility approved by the Regulator or from a PC2 facility.

45. Any Plant Material transported must be transported in accordance with the guidelines for the transportation of GM Plant Material found in the OGTR Guidelines for the Transport of GMOs as current at the time of transportation, and routes, methods and procedures used for this transportation in accordance with this licence must be documented and provided to the Regulator on request.

#### ***Cleaning of Equipment and Places***

46. Cleaning of Equipment must occur immediately or as soon as practicable after use and before it is used for any other purpose.

47. The following Places must be Cleaned:

- (a) the Location and Monitoring Zone;
- (b) any areas used during Harvest;
- (c) any areas used to Clean Equipment used in connection with the GMOs or Plant Material or to Destroy the GMOs or Plant Material.

48. Each Place in respect of the Location must be Cleaned within fourteen (14) days of Harvest or Destruction of the GMOs.

49. The licence holder must, in a manner required by paragraph **Error! Reference source not found.**, give notice to the Regulator of the date on which Cleaning of each Place concluded.

## ***Section 6 Inspection, Use of Site and Sign off***

50. Inspections must be performed by a person who is able to recognise Volunteer Plants and Related Species.

### ***Inspections to be conducted in the Location while the GMOs are being grown***

51. Inspections must be conducted at least once every seven (7) days to look for evidence of imminent flowering until all of the GMOs at the Location have been Harvested from the Location.

### ***Inspections to be conducted in the Monitoring Zone while the GMOs are being grown at the Location***

52. Inspections must be conducted at least once every seven (7) days to look for vegetative growth of the GMOs in the Monitoring Zone until all of the GMOs at the Location have been Harvested from the Location.

### ***General conditions on use of Location post-harvest***

53. No plants may be grown in a Place following its Cleaning unless the Regulator has issued a Sign-off for the Site or unless the plants are plants agreed to in writing by the Regulator.

### ***Post-harvest (or post-Destruction) Inspections***

54. Following Cleaning, all Places Cleaned must be inspected for the existence of Volunteer Plants.

55. Any Volunteer Plants identified must be Destroyed prior to the plants flowering.

56. For the Location, all Places required to be inspected must be inspected at least once every thirty-five (35) days, commencing on the last day of Cleaning of the Location and continuing until the Regulator has issued a Sign-off for the relevant site.

57. The licence holder must, in the manner required by the condition in paragraph 70, record the results of inspection activities and forward the results to the Regulator.

58. Inspection requirements do not apply in respect of a Place within a Site if the licence holder has received a Sign-off for the Site.

*Note: The Regulator will not approve the growing of Related Species prior to Sign-off.*

### **Sign-off**

59. For the Site,

- (d) if inspections have been routinely completed for a period of at least twelve (12) months, and
- (e) if inspection records show that no Volunteers have been observed in the most recent six (6) month inspection period

the licence holder may make written application to the Regulator that these inspection conditions no longer apply to the Site and that the Site receives 'Sign-off'.

## **Section 7 Reporting and Documentation Requirements**

### **Compliance Management Plan**

60. Prior to growing the GMOs, a written Compliance Management Plan must be provided to the Regulator. The Compliance Management Plan must describe in detail how the licence holder intends to ensure compliance with each of these conditions and document that compliance and must include,

- (a) A list of the names of all organisations or natural persons who will be persons covered by this licence. Where a name of a person is not known at the time of submitting the Compliance Management Plan the function or position of the person to be covered must be provided.

*Note: Examples of functions or positions are 'Site manager', 'Farm labourer' etc.*

- (b) An explanation of how the licence holder has informed, or proposes to inform, each person intended to be covered by the licence of the conditions of this licence including conditions related to the collection of Personal Information by the licence holder from the person intended to be covered by the licence.
- (c) A description of the responsibilities of the licence holder and of each person covered by the licence in relation to the requirements of this licence
- (d) A description of how any contracts, agreements, or other enforceable arrangements between the licence holder and persons covered by the licence will allow the licence holder to access and control a Site to the extent necessary to comply with this licence, for the duration of the life of the licence.
- (e) A description of the licence holder's plans for post harvest use of a Site during the life of this licence.

61. Where any of the details of the compliance management plan change, the Regulator must be notified of the changes within fourteen (14) days of the change occurring.

### ***Contingency Plans***

62. Within thirty (30) days of the date of issue of this licence, a written Contingency Plan must be submitted to the Regulator detailing measures to be taken in the event of the unintended presence of the GMOs or Plant Material outside an area that must be inspected.

63. The Contingency Plan must include details of procedures to:

- (a) ensure the Regulator is notified immediately if the licence holder becomes aware of the event;
- (b) Destroy any of the GMOs or Plant Material; and
- (c) inspect for and Destroy any Volunteer Plants that may exist as a result of the event.

64. The Contingency Plan must be implemented in the event that the unintended presence of the GMOs or Plant Material is discovered outside an area that must be inspected.

### ***Notice of intention to plant, of planting and flowering***

65. At least seven (7) days prior to the date on which planting of the GMOs is intended to commence, the licence holder must provide a notice in writing to the Regulator which contains:

- (a) the date on which planting of the GMOs is intended to commence;
- (b) the date on which planting of any non-GM perennial ryegrass and tall fescue on a Location is intended to commence;
- (c) details of the Location where the GMOs will be planted, including the size of the Location, a street address and GPS coordinates for the Location;
- (d) the identity of the GMOs which are intended to be planted;
- (e) the period during which the licence holder considers the GMOs are likely to flower;
- (f) the period during which the licence holder considers the GMOs are likely to be Harvested;
- (g) the period during which the licence holder considers the GMOs are likely to be Destroyed;
- (h) a description of how the Location is intended to be used during the first year following harvest of the GMOs.

66. Within seven (7) days of planting of the GMOs, the licence holder must provide a notice in writing to the Regulator which contains:

- (a) the actual date on which planting of the GMOs occurred;
- (b) the date on which planting of any non-GM perennial ryegrass and tall fescue on a Location occurred;

- (c) details of the Location where the GMOs were planted, including the size of the Location, a street address and GPS coordinates for the Location;
- (d) the identity of the GMOs which were planted;
- (e) the period during which the licence holder considers the GMOs are likely to flower;
- (f) the period during which the licence holder considers the GMOs are likely to be Harvested;
- (g) the period during which the licence holder considers the GMOs are likely to be Destroyed;
- (h) a description of how the Location is intended to be used during the first year following final Harvest of the GMOs.

### ***Notice of Harvest and Cleaning following Harvest***

67. The licence holder must provide the Regulator with a notice of intention to Harvest the GMOs at the Location. This notice must be provided at least seven (7) days, and not more than twenty one (21) days, in advance of the intended date of Harvest set out in the notice. Any change of intention prior to the intended Harvest date must be notified to the Regulator as soon as is reasonably and practically possible.

68. The licence holder must provide the actual date or dates of commencement of Harvesting of the GMOs at the Location. This notice must be provided within seven (7) days of commencement of Harvesting of the GMOs at the Location.

69. The licence holder must provide a notice in writing to the Regulator when a Location is Cleaned following harvest. The notice must be provided to the Regulator within fourteen (14) days of the date on which Cleaning of the Location concluded.

70. On the request of the Regulator, the Regulator must be provided with written documentation of the procedures in place to ensure continuing compliance with the Cleaning conditions in this licence.

### ***Results of inspection activities***

71. The results of inspection activities must be recorded in a logbook or paper file. The findings of the inspections as recorded in the logbook or paper file must be forwarded to the Regulator within fourteen (14) days of inspection taking place and must also be included in the licence holder's Annual Report to the Regulator. The logbook or paper file must contain at least the following:

- (a) details of the areas inspected;
- (b) details of current land use (eg type of crop being grown) and of recent land management practices (eg irrigation, cultivation or spraying) applied in the areas inspected;
- (c) details of the date of inspection;

- (d) the names of the person or persons who undertook the monitoring and details of the experience, training or qualification that enabled them to recognise Volunteer Plants and Related Species;
- (e) the means of inspection used;
- (f) the number of Volunteer Plants or Related Species observed, if any;
- (g) details of the development stages reached by the Volunteer Plants or Related Species, if any;
- (h) details of methods used to Destroy Volunteer Plants or Related Species, if any.
- (i) details of any repairs to fences required under the condition in paragraph 30.
- (j) details of any flowering of the GMOs at the Location as required under condition in paragraph 34.

72. The licence holder must keep records of the number and type of GM perennial ryegrass and tall fescue plants grown at the Site as part of the trial, and the number of perennial ryegrass and tall fescue plants and Plant Material from the Site stored, at the end of the trial.

#### ***Transportation of Plant Material***

73. The licence holder must have in place accounting procedures to ensure the same quantity of Plant Material sent is delivered and must document routes, methods and procedures used for transportation of Plant Material.

#### ***Annual Report***

74. The licence holder must provide an Annual Report to the Regulator.

#### ***Testing methodology***

75. The licence holder must provide a written instrument to the Regulator describing an experimental method that is capable of reliably detecting the presence of the GMOs and the presence of the genetic modifications described in this licence (for details see Attachment B of the licence) in a recipient organism. The instrument must be provided within thirty (30) days of the issuing of this licence.

**DIR No: 082/2007**

**\*Full Title:** Limited and controlled release of GM perennial ryegrass and tall fescue with altered fructan and lignin metabolism

**Organisation Details**

**Postal address:** \*Victorian Agribiosciences Centre  
1 Park Drive  
Bundoora, VIC 3083  
AUSTRALIA

**Phone No:** (03) 9479 2995

**Project Supervisor Details**

**Surname:** *[Personal Information Redacted]*

**First Name:** *[Personal Information Redacted]*

**Title:** *[Personal Information Redacted]*

**Phone No:** *[Personal Information Redacted]*

**Fax:** *[Personal Information Redacted]*

**Email Address:** *[Personal Information Redacted]*

**Position:** *[Personal Information Redacted]*

**Organisation:** The Victorian Department of Primary Industries

**Postal Address:** Victorian Agribiosciences Centre  
1 Park Drive  
Bundoora, VIC 3083  
AUSTRALIA

**IBC Details**

**IBC Name:** Department of Primary Industries - Victoria

**GMO Description****\*Parent Organism(s):**

Common Names: Perennial Ryegrass and Tall Fescue

Scientific Names: *Lolium arundinaceum*

*Lolium perenne*

**\*Modified trait(s):**

Categories: Enhancement of forage quality

Description: Perennial ryegrass and tall fescue plants have been genetically modified for altered fructan or lignin metabolism. All lines also contain a selective marker gene to identify transformed plant tissue.

**\*Genes responsible for conferring the modified trait:**

Altered lignin metabolism [This is Confidential Commercial Information]

Altered fructan metabolism [This is Confidential Commercial Information]

Selectable marker *hph* gene from *Escherichia coli*

**Purpose of the Dealings with the GMOs:**

The Victorian Department of Primary Industries applied for a licence to release up to 500 genetically modified (GM) perennial ryegrass and tall fescue lines into the environment on a limited scale and under controlled conditions. The purpose of the proposed trial is to conduct proof of concept research involving experiments with the GM perennial ryegrass and tall fescue lines to assess the agronomic performance of the lines under field conditions, and to obtain tissue samples for subsequent analysis of characteristics such as gene and protein expression levels, and metabolite profiles. Some seed will be saved for possible future trials with promising lines. The GM perennial ryegrass and tall fescue will not be used for human food or animal feed.

**\* Information that must be included in the Record of GM Products and GMO Dealings.**