

ENVIRONMENTAL RISK MANAGEMENT AUTHORITY

THE BULLETIN

The Bulletin is published eleven times per year. It is a listing of applications being processed and the Authority's decisions as well as other activities under the Hazardous Substances and New Organisms (HSNO) Act. The public register is the official record of all applications received and any controls attached to approvals and may be viewed at our Wellington office.

Alternatively, you may view the applications and associated documents on the ERMA New Zealand website: www.ermanz.govt.nz

NEW ORGANISMS

NOTIFIED APPLICATIONS RECEIVED AND OPEN FOR SUBMISSIONS

The applications in the Bulletin are for reference only. Our public notification process includes alerts in four main daily newspapers with full information and submission forms available on our website.

To ensure that you are advised directly about applications open for public submission contact us at info@ermanz.govt.nz to be added to our interested party list. You will need to nominate the types of applications that you are interested in.

There are currently no notified applications open for submission

NON-NOTIFIED APPLICATIONS RECEIVED

Applicant: IRL BioPharm

Application Code: GMC04011

Purpose: To import into containment genetically modified *Streptomyces hygrosopicus* for production of novel antibiotics

Formally Received: 05 August 2004

Applicant: Cactus and Succulent Society New Zealand (CSSNZ)

Application Code: S2604016

Purpose: To have a number of species and their synonyms in the genus *Faucaria* determined to be not new organisms under Section 26 of the HSNO Act

Formally Received: 05 August 2004

WITHDRAWN APPLICATIONS

Applicant: Ministry of Agriculture and Forestry - National Centre for Disease Investigation

Application Code: S2604005

Purpose: To have Influenza A virus determined to be not a new organism under section 26 of the HSNO Act, thereby clarifying its status in regard to the importation of reference strains into containment for diagnostic purposes

Date application received: 03 February 2004

Date withdrawn: 04 August 2004

Please feel free to photocopy this material. Acknowledgement of ERMA New Zealand would be appreciated.

ERMA NEW ZEALAND

PO Box 131 Wellington

Phone: +64 4 916 2426 Fax: +64 4 914 0433

Email: info@ermanz.govt.nz

Website: www.ermanz.govt.nz

Applicant: Ministry of Agriculture and Forestry - National Centre for Disease Investigation

Application Code: S2604007

Purpose: To have *Porcine teschovirus* and *Porcine enterovirus A* determined to be not new organisms under section 26 of the HSNO Act, thereby clarifying their status in regard to the importation of reference strains into containment for diagnostic purposes

Date Application Received: 03 February 2004

Date Withdrawn: 04 August 2004

DECISIONS ON APPLICATIONS

Applicant: Cactus and Succulent Society New Zealand (CSSNZ)

Application Code: S2604008

Purpose: To have a number of species and their synonyms in the genus *Haworthia* determined to be not new organisms under Section 26 of the HSNO Act

Decision Notified: 02 August 2004

Decision: Determined to be not new organisms

Description of Organisms:

Haworthia albanensis Schonland 1912
Haworthia altissima (M.B. Bayer) M. Hayashi 2000
Haworthia baylissii C.L.Scott 1968
Haworthia gigas von Poellnitz 1933
Haworthia gracilis von Poellnitz 1930
Haworthia longiaristata von Poellnitz 1937
Haworthia stiemei von Poellnitz 1938
Haworthia venterii von Poellnitz 1939
Haworthia xiphophylla Baker 1896
Haworthia denticulata Haworth 1821
Haworthia pubescens M.B.Bayer 1972
Haworthia argyrostigma Baker 1896
Haworthia britteniana von Poellnitz 1937
Haworthia derustensis (M.B. Bayer) M. Hayashi 2000
Haworthia batteniae C.L.Scott 1973
Haworthia fergusoniae von Poellnitz 1930
Haworthia inermis von Poellnitz 1933
Haworthia _cassytha Baker 1896
Haworthia denticulifera (von Poellnitz) M.

Hayashi 2000

Haworthia floribunda von Poellnitz 1936

Haworthia pulchella M.B.Bayer 1973

Haworthia subglauca (von Poellnitz) M. Hayashi 2000

Haworthia zantneriana von Poellnitz 1935

Haworthia chalwinii Marloth and Berger 1906

Haworthia fallax von Poellnitz 1933

Haworthia fulva G.G.Smith 1943

Haworthia peacockii Baker 1880

Haworthia coarctatoides Resende and Viveiros 1948

Haworthia columnaris Baker 1889

Haworthia dielsiana von Poellnitz 1930

Haworthia gordoniana von Poellnitz 1937

Haworthia joeyae C.L.Scott 1995

Haworthia leightonii G.G.Smith 1950

Haworthia pilifera Baker 1871

Haworthia staynerii von Poellnitz 1937

Haworthia venusta C.L.Scott 1996

Haworthia bayeri J.D.Venter and S.A.Hammer 1997

Haworthia _ cuspidata Haworth 1819

Haworthia concava Haworth 1821

Haworthia hilliana von Poellnitz 1937

Haworthia incurvula von Poellnitz 1933

Haworthia reddii C.L.Scott 1994

Haworthia umbraticola von Poellnitz 1937

Haworthia perplexa von Poellnitz 1938

Haworthia cyanea (M.B. Bayer) M. Hayashi 2000

Haworthia pringlei C.L.Scott 1994

Haworthia monticola Fourcade 1932

Haworthia multifolia (M.B. Bayer) M. Hayashi 2000

Haworthia picta von Poellnitz 1938

Haworthia wimii M. Hayashi 2000

Haworthia carrissoi Resende 1941

Haworthia eilyae von Poellnitz 1937

Haworthia jacobseniana von Poellnitz 1937

Haworthia _ henriquesii Resende 1941

- Haworthia aegrota* von Poellnitz 1939
- Haworthia atrovirens* (De Candolle)
Haworth 1821
- Haworthia lupula* (M.B. Bayer) M.
Hayashi 2000
- Haworthia luteorosea* Uitewaal 1939
- Haworthia paynei* von Poellnitz 1937
- Haworthia pellucens* Haworth 1812
- Haworthia submaculata* von Poellnitz 1939
- Haworthia _janseana* Uitewaal 1940
- Haworthia gigantea* (M.B. Bayer) M.
Hayashi 2000
- Haworthia keithii* (G.G. Smith) M.
Hayashi 2000
- Haworthia intermedia* von Poellnitz 1937
- Haworthia acuminata* (M.B. Bayer) M.
Hayashi 2000
- Haworthia atrofusca* G.G.Smith 1948
- Haworthia dekenahii* G.G.Smith 1944
- Haworthia splendens* (S.A. Hammer and
D.J. Venter) M. Hayashi 2000
- Haworthia major* (Aiton) Duval 1809
- Haworthia maxima* (Haworth) Duval 1809
- Haworthia semiglabrata* Haworth 1819
- Haworthia laevis* Haworth 1821
- Haworthia ramifera* Haworth 1821
- Haworthia virescens* Haworth 1821
- Haworthia dimorpha* (M.B. Bayer) M.
Hayashi 2000
- Haworthia brevis* Haworth 1819
- Haworthia erecta* Haworth 1819
- Haworthia granata* (Willdenow) Haworth
1819
- Haworthia minor* (Aiton) Duval 1809
- Haworthia mutabilis* von Poellnitz 1938
- Haworthia uitewaaliana* von Poellnitz
1939
- Haworthia badia* von Poellnitz 1938
- Haworthia beukmannii* (von Poellnitz) M.
Hayashi 2000
- Haworthia calcarea* (M.B. Bayer) M.
Hayashi 2000
- Haworthia consanguinea* (M.B. Bayer) M.
Hayashi 2000
- Haworthia mundula* G.G.Smith 1946
- Haworthia rossouwii* von Poellnitz 1938
- Haworthia triebneriana* von Poellnitz
1937
- Haworthia willowmorensis* von Poellnitz
1937
- Haworthia inconfluens* (von Poellnitz)
M.B. Bayer 1976
- Haworthia limpida* Haworth 1819
- Haworthia mclarenii* von Poellnitz 1939
- Haworthia polyphylla* Baker 1880
- Haworthia rycroftiana* M.B.Bayer 1981
- Haworthia sakaii* M. Hayashi 2000
- Haworthia otzenii* G.G.Smith 1945
- Haworthia ryneveldii* von Poellnitz 1939
- Haworthia globosiflora* G.G.Smith 1950
- Haworthia pehlemanniae* C.L.Scott 1982
- Haworthia olivetteana* Parr 1971
- _Astroworthia bicarinata* (Haworth) G.D.
Rowley 1973
- Astroloba corrugata* N.L.Meyer and
G.F.Smith 1998
- Haworthia transiens* (von Poellnitz) M.
Hayashi 2000
- Haworthia silviae* M. Hayashi 2000
- Haworthia rugosa* (Salm-Dyck) Baker
1880
- Haworthia tislei* Baker 1880
- Haworthia guttata* Uitewaal 1947
- Haworthia subregularis* Baker 1871
- Haworthia bruynsii* M.B.Bayer 1981
- Haworthia fouchei* von Poellnitz 1940
- Haworthia geraldii* C.L.Scott 1965
- Haworthia heidelbergensis* G.G.Smith
1948
- Haworthia multilineata* (G.G.Smith)
C.L.Scott 1985
- Haworthia solitaria* (G.G.Smith) C.L.Scott
1973
- Haworthia _revendettii* Uitewaal 1940
- Haworthia _rubrobrunnea* von Poellnitz
1940
- Haworthia _sampaiana* (Resende)
Resende 1940
- Haworthia broteriana* Resende 1941
- Haworthia lateganiae* von Poellnitz 1937

Haworthia morrisiae von Poellnitz 1937
Haworthia smitii von Poellnitz
Haworthia tauteae Archibald 1946
Haworthia _ sessiliflora Baker 1896
Haworthia agavoides Zantner and von Poellnitz 1938
Haworthia _ subattenuata (Salm-Dyck) Baker 1880
Haworthia kingiana von Poellnitz 1937
Haworthia confusa von Poellnitz 1933
Haworthia curta Haworth 1819
Haworthia viscosa (Linne) Haworth 1812
Haworthia subrigida (Roemer and Schultes) Baker 1880
Haworthia x mantelii Uitewaal 1947
Haworthia longibracteata G.G.Smith 1945
Haworthia hemicypta (M.B. Bayer) M. Hayashi 2000
Haworthia modesta (M.B. Bayer) M. Hayashi 2000
Haworthia petrophila (M.B. Bayer) M. Hayashi 2000
Haworthia distincta N.E.Brown 1876
Haworthia engleri Dinter 1914
Haworthia granulata Marloth 1910
Haworthia parva Haworth 1824
Haworthia pseudotessellata von Poellnitz 1929
Haworthia maraisii von Poellnitz 1935
Haworthia rigida (Lamarck) Haworth 1821
Haworthia isabellae von Poellnitz 1938
Haworthia picturata (M.B. Bayer) M. Hayashi 2000
Haworthia dentata (M.B. Bayer) M. Hayashi 2000
Haworthia kondoi M. Hayashi 2000
Haworthia globifera (M.B. Bayer) M. Hayashi 2000
Haworthia _ coarctatoides Resende and Viveiros 1948
Haworthia _ perplexa von Poellnitz 1938
Haworthia asema (M.B. Bayer) M. Hayashi 2000
Haworthia _ submaculata von Poellnitz 1939

Haworthia semimargaritifera (Salm-Dyck) Haworth 1819
Haworthia _ semiglabrata Haworth 1819
Haworthia _ uitewaaliana von Poellnitz 1939
Astroloba bicarinata (Haworth) Uitewaal 1947
Astroloba skinneri (A.Berger) Uitewaal 1947
Haworthia bicarinata (Jacquin) Parr 1971
_Astroworthia skinneri (A. Berger) Groen 1987
Haworthia corrugata (N.L.Meyer and G.F.Smith) M. Hayashi 2000
Haworthia _ broteriana Resende 1941
Haworthia _ tauteae Archibald 1946
Haworthia asperiuscula Haworth 1819
Haworthia beanii G.G.Smith 1944
Haworthia concinna Haworth 1819
Haworthia cordifolia Haworth 1819
Haworthia indurata Haworth 1821
Haworthia pseudotortuosa (Salm-Dyck) Haworth 1819
Haworthia torquata Haworth 1827
Haworthia _ subrigida (Roemer and Schultes) Baker 1880
Haworthia notabilis von Poellnitz 1938
Haworthia _ rigida (Lamarck) Haworth 1821

Applicant: Lyn Hammond

Application Code: S2604010

Purpose: To have *Cyclamen alpinum* determined to be not a new organism under section 26 of the HSNO Act

Decision Notified: 02 August 2004

Decision: Determined to be not new organisms

Description of Organisms: *Cyclamen alpinum* Sprenger 1892

Applicant: Cactus and Succulent Society New Zealand (CSSNZ)

Application Code: S2604012

Purpose: To have a number of species and their synonyms in the genus *Astroloba* determined to be not new organisms under Section 26 of the HSNO Act

Decision Notified: 02 August 2004

Decision: Determined to be not new organisms

Description of Organisms:

Astroloba egregia (von Poellnitz) Uitewaal 1947

Haworthia bullulata (Jacquin) Parr 1971

Haworthia egregia (von Poellnitz) Parr 1971

Astroloba turgida (Baker) Jacobsen 1960

Haworthia congesta (Salm-Dyck) Parr 1971

Haworthia shieldsiana Parr 1971

Haworthia shieldseana Parr 1971

Haworthia foliolosa (Haworth) Haworth 1812

Astroloba dodsoniana Uitewaal 1950

Haworthia harlandiana Parr 1971

Haworthia gweneana Parr 1971

Haworthia pentagona (Aiton) Haworth 1812

Haworthia spiralis (Linne) Duval 1809

Haworthia spirella Haworth 1812

Applicant: Auckland Zoological Park

Application Code: S2604002

Purpose: To determine that passerine birds species are not a new organism under section 26 of the HSNO Act

Decision Notified: 03 August 2004

Decision: Determined to be not new organisms

Description of Organisms:

Acanthis flammea Linnaeus 1758 Redpoll (feral)

Aidemosyne modesta Gould 1837 Plumhead (Cherry Finch)

Amadina erythrocephala Linnaeus 1958 Aberdeen (Red Headed Finch)

Amadina fasciata Gmelin 1789 Cut-throat

Amandava amandava Linnaeus 1758 Avadavat (Red Strawberry)

Amandava Formosa Latham 1790 Avadavat (Green Strawberry)

Amandava subflava Vieillot 1819 Orange-breasted Waxbill

Auripasser luteus Lichtenstein 1823 Golden Song Sparrow

Cardinalis cardinalis Linnaeus 1758 Red Crested Cardinal (Virginian)

Carduelis carduelis Linnaeus 1758 Goldfinch (feral)

Carduelis chloris Linnaeus 1758 Greenfinch (feral)

Carduelis cucullata Swainson 1820 Siskin - Red Hooded

Carduelis sinica Linnaeus 1766 Greenfinch (oriental)

Carduelis spinus Linnaeus 1758 Siskin-European

Chloebia gouldiae Gould 1844 Gouldian Finch

Emberiza citrinella Linnaeus 1758 Yellow Hammer (feral)

Emblema picta Gould 1842 Painted Firetail

Erythrura hyperythra Reichenbach 1863 Parrot-Finch - Bamboo

Erythrura pealii Hartlaub 1852 Parrot-Finch - Peale's

Erythrura prasina Sparrman 1788 Parrot-Finch - Pin-tailed Nonpareil

Erythrura psittacea Gmelin 1789 Parrot-Finch - Redheaded

Erythrura trichroa Kittlitz 1835 Parrot-Finch - Blue-faced

Erythrura tricolor Vieillot 1817 Parrot-Finch - Tricoloured

Estrilda caerulescens Vieillot 1817 Lavender Waxbill

Estrilda astrild Linnaeus 1758 Saint Helena Waxbill

Estrilda erythronotos Vieillot 1817 Black-cheeked Waxbill

Estrilda melanotis Temminck 1823 Sweet Waxbill

Estrilda melpoda Vieillot 1817 Orange-cheeked Waxbill

Estrilda troglodytes Lichtenstein 1823 Red Eared Waxbill

Euchstospiza dybowskie Oustalet 1892 Dybowski Twin-spot

Euplectes axillaris Smith 1838 Whydah - Red Shouldered

Euplectes orix orix Linnaeus 1758 Weaver - Red/orange Bishop (Grenadier)

Foudia madagascariensis Linnaeus 1766 Weaver - Madagascar

Fringilla coelebs Linnaeus 1758 Chaffinch (feral)

Heteromunia pectoralis Gould 1841 Pictorella Mannikin

Hypargos niveoguttatus Peters 1868 Twinspot Peters Red

Lagonostica larvata Ruppell 1840 Masked Firefinch

Lagonostica rhodopareia Heuglin 1868 Jameson's Firefinch

Lagonosticta senegala Linnaeus 1766 Fire Finch

Leiothrix lutea Scopoli 1786 Pekin Robin

Lonchura bicolor nigriceps Cassin 1852 Rufous Backed Mannikin

Lonchura caniceps Salvadori 1876 Munia Greyheaded

Lonchura cantans Gmelin 1789 Silverbill

Lonchura castaneothorax Gould 1837 Chestnut-breasted Mannikin

Lonchura domestica (Domestic Hybrid) Bengalese Finch

Lonchura flaviprymna Gould 1845 Yellow-rumped Mannikin

Lonchura leucogastra Blyth 1846 Munia White-bellied

Lonchura maja Linnaeus 1766 Munia White-headed

Lonchura malacca malacca Linnaeus 1766 Munia Tri-coloured

Lonchura punctulata Linnaeus 1758 Spice Finch

Mandingoa nitidula Hartlaub 1865 Twinspot - Green

Neochmia phaeton Hombron and Jacquinot 1841 Crimson Finch (Blood Finch)

Neochmia ruficauda Gould 1837 Star Finch

Neochima temporalis Latham 1801 Red Browed Finch (Sydney Waxbill)

Ortygospiza atricollis Vieillot 1817 Quail Finch

Padda oryzivora Linnaeus 1758 Java Sparrow

Paroaria cucullata Miller 1776 Red Crested Cardinal

Poephila cincta Gould 1837 Black Throated Grassfinch (Parson)

Poephila acuticauda Gould 1840 Longtailed Grassfinch

Poephila acuticauda hecki Gould 1840 Longtailed Grassfinch (Heck's)

Poephila personata Gould 1842 Masked Grassfinch

Pyrrhula pyrrhula Linnaeus 1758 European Bullfinch

Pytilia hypogrammica Sharpe 1870 Aurora (Red-headed / Yellow Wing)

Pytilia melba Linnaeus 1758 Melba

Pytilia phoenicoptera Swainson 1837 Aurora

Serinus canaria Linnaeus 1758 Canaries (all crossbreeds, mutations, hybrids)

Serinus leucopygius Sundevall 1850 Singer - Grey

Serinus mozambicus Muller 1776 Singer - Little Green

Spinus ictericus Siskin – Vieillot 1805 Yellow Headed (Black-hooded)

Stagonopleura guttata Shaw 1796 Diamond Firetails

Taeniopygia bichenovii Vigors and Horsfield 1827

Taeniopygia guttata Vieillot 1817 Zebra Finch

Uraeginthus angolensis Linnaeus 1758 Cordon Bleu (Red-cheeked)

Uraeginthus cyanocephalus Richmond 1897 Blue-capped Cordon Bleu

Uraeginthus granatina Linnaeus 1766 Violet-eared Waxbill

Uraeginthus ianthinogaster Reichenow 1879 Purple Grenadier Waxbill

Vidua macroura Pallas 1764 Whydah - Pintailed

Volatinia jacarina Linnaeus 1766 Jacarini

Applicant: Cactus and Succulent Society New Zealand (CSSNZ)

Application Code: S2604014

Purpose: To have a number of species and their synonyms in the genus *Argyroderma* determined to be not new organisms under Section 26 of the HSNO Act

Decision Notified: 09 August 2004

Decision: Determined to be not new organisms

Description of Organisms:

Argyroderma angustipetalum L.Bolus 1934
Argyroderma jacobsonianum Schwantes 1933
Argyroderma nortieri L.Bolus 1934
Argyroderma peersii L.Bolus 1934
Argyroderma aureum L.Bolus 1934
Argyroderma australe L.Bolus 1934
Argyroderma blandum L.Bolus 1934
Argyroderma boreale L.Bolus 1965
Argyroderma brevitubum L.Bolus 1934
Argyroderma carinatum L.Bolus 1934
Argyroderma citrinum L.Bolus 1934
Argyroderma concinnum Schwantes 1928
Argyroderma densipetalum L.Bolus 1934
Argyroderma formosum L.Bolus 1934
Argyroderma gregarium L.Bolus 1937
Argyroderma latifolium L.Bolus 1965
Argyroderma lesliei N.E.Brown 1931
Argyroderma leucanthum L.Bolus 1934
Argyroderma longipes L.Bolus 1934
Argyroderma planum L.Bolus 1934
Argyroderma productum L.Bolus 1934
Argyroderma reniforme L.Bolus 1937
Argyroderma rooipanense L.Bolus 1965
Argyroderma speciosum L.Bolus 1934
Argyroderma splendens L.Bolus 1934
Argyroderma braunsii (Schwantes) Schwantes 1929
Argyroderma brevipes (Schlechter) L.Bolus 1929
Argyroderma digitifolium (N.E.Brown) Schwantes 1929
Argyroderma hutchinsonii L.Bolus 1929
Argyroderma latipetalum L.Bolus 1934
Argyroderma litorale L.Bolus 1966
Argyroderma orientale L.Bolus 1934
Argyroderma hallii L.Bolus 1963
Argyroderma strictum L.Bolus 1937
Argyroderma amoenum Schwantes 1929
Argyroderma luckhoffii L.Bolus 1934
Argyroderma ovale L.Bolus 1934
Argyroderma schlechteri Schwantes 1929
Argyroderma villetii L.Bolus 1934
Argyroderma roseum Schwantes 1929

DELEGATED AUTHORITY

The following applications were decided by institutions acting under delegated powers from the Authority.

Applicant: AgResearch Limited

Institute Code: GMO04/ARR001

Application Code: GMD04078

Purpose: To develop recombinant bacteria that express an easily detectable bioluminescent marker

Decision Notified: 07 July 2004

Description of Organism: *Aeromonas hydrophila* modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003284

Description of Organism: *Bacillus cereus* modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003285

Description of Organism: *Brochothrix thermosphacta* modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003286

Description of Organism: *Campylobacter jejuni* modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003287

Description of Organism: *Clostridium estertheticum* modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003288

Description of Organism: *Clostridium perfringens* modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003289

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (non-pathogenic strains) modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC1

Category: A

and

Escherichia coli (VTEC-producing strains eg. 0157:H7) modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003290

Description of Organism: *Lactobacillus* species modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003291

Description of Organism: *Lysteria monocytogenes* modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003292

Description of Organism: *Pseudomonas aeruginosa* modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003293

Description of Organism: *Salmonella enterica* modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003294

Description of Organism: *Serratia* species modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003295

Description of Organism: *Shewanella* species modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003296

Description of Organism: *Staphylococcus aureus* modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003297

Description of Organism: *Yersinia enterocolitica* modified with prokaryotic expression vectors containing well-characterised fluorescent reporter genes (derived from invertebrates) and selectable marker genes

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003298

Applicant: AgResearch Limited

Institute Code: GMO04/ARR002

Application Code: GMD04079

Purpose: Identification of bacterial genes that enable bacteria to survive during food processing

Decision Notified: 07 July 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (non-pathogenic strains) modified with non-expression cloning vectors containing 16S rRNA genes from uncharacterised microorganisms isolated from food, food processing and related environments and modified with non-expression cloning vectors containing genes that are differentially expressed during meat processing from meat-borne bacteria (Risk Groups 1 and 2)

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003299

Applicant: AgResearch Limited

Institute Code: GMO04/ARR004

Application Code: GMD04081

Purpose: To genetically modify bacteria and yeast with genes from the BPI-like family of host-defence proteins.
Update of GMO00/ARR017

Decision Notified: 07 July 2004

Description of Organism: *Bos taurus* cell lines (primary and immortalised) modified with standard cloning vectors containing cDNAs encoding members of the BPI-like family of proteins or encoding Stat5, bsp30, acetyl coA carboxylase, GAPDH, rRNA glucocorticoid receptor, Stat3, prolactin receptor, p100, C/EBP or NF-KB sourced from *Mus musculus*, *Rattus norvegicus*, *Homo sapiens*, *Bovidae*, *Ovidae*, *Capridae*, *Caenorhabditis elegans*, *Drosophila melanogaster*, *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe* and bovine genomic DNA sequences

Containment: PC1

Category: A

or, if contain infectious pathogenic agents

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003276

Description of Organism: *Cercopithecus aethiops* cell lines modified with standard cloning vectors containing cDNAs encoding members of the BPI-like family of proteins or encoding Stat5, bsp30, acetyl coA carboxylase, GAPDH, rRNA glucocorticoid receptor, Stat3, prolactin receptor, p100, C/EBP or NF-KB sourced from *Mus musculus*, *Rattus norvegicus*, *Homo sapiens*, *Bovidae*, *Ovidae*, *Capridae*, *Caenorhabditis elegans*, *Drosophila melanogaster*, *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe* and bovine genomic DNA sequences

Containment: PC1

Category: A

or, if contain infectious pathogenic agents

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003277

Description of Organism: *Criteculus griseus* cell lines modified with standard cloning vectors containing cDNAs encoding members of the BPI-like family of proteins or encoding Stat5, bsp30, acetyl coA carboxylase, GAPDH, rRNA glucocorticoid receptor, Stat3, prolactin receptor, p100, C/EBP or NF-KB sourced from *Mus musculus*, *Rattus norvegicus*, *Homo sapiens*, *Bovidae*, *Ovidae*, *Capridae*, *Caenorhabditis elegans*, *Drosophila melanogaster*, *Saccharomyces cerevisie*, *Schizosaccharomyces pombe* and *bovine* genomic DNA sequences

Containment: PC1

Category: A

or, if contain infectious pathogenic agents

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003278

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (non-pathogenic strains) modified with standard cloning vectors containing cDNAs encoding members of the BPI-like family of proteins or encoding Stat5, bsp30, acetyl coA carboxylase, GAPDH, rRNA glucocorticoid receptor, Stat3, prolactin receptor, p100, C/EBP or NF-KB sourced from *Mus musculus*, *Rattus norvegicus*, *Homo sapiens*, *Bovidae*, *Ovidae*, *Capridae*, *Caenorhabditis elegans*, *Drosophila melanogaster*, *Saccharomyces cerevisie*, *Schizosaccharomyces pombe* and *bovine* genomic DNA sequences

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003279

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus cell lines (primary and immortalised) modified with standard cloning vectors containing cDNAs encoding members of the BPI-like family of proteins or encoding Stat5, bsp30, acetyl coA carboxylase, GAPDH, rRNA glucocorticoid receptor, Stat3, prolactin receptor, p100, C/EBP or NF-KB sourced from *Mus musculus*, *Rattus norvegicus*,

Homo sapiens, *Bovidae*, *Ovidae*, *Capridae*, *Caenorhabditis elegans*, *Drosophila melanogaster*, *Saccharomyces cerevisie*, *Schizosaccharomyces pombe* and *bovine* genomic DNA sequences

Containment: PC1

Category: A

or, if contain infectious pathogenic agents

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003280

Description of Organism: *Pichia pastoris* modified with standard cloning vectors containing cDNAs encoding members of the BPI-like family of proteins or encoding Stat5, bsp30, acetyl coA carboxylase, GAPDH, rRNA glucocorticoid receptor, Stat3, prolactin receptor, p100, C/EBP or NF-KB sourced from *Mus musculus*, *Rattus norvegicus*, *Homo sapiens*, *Bovidae*, *Ovidae*, *Capridae*, *Caenorhabditis elegans*, *Drosophila melanogaster*, *Saccharomyces cerevisie*, *Schizosaccharomyces pombe* and *bovine* genomic DNA sequences

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003281

Description of Organism: *Saccharomyces cerevisiae* modified with standard cloning vectors containing cDNAs encoding members of the BPI-like family of proteins or encoding Stat5, bsp30, acetyl coA carboxylase, GAPDH, rRNA glucocorticoid receptor, Stat3, prolactin receptor, p100, C/EBP or NF-KB sourced from *Mus musculus*, *Rattus norvegicus*, *Homo sapiens*, *Bovidae*, *Ovidae*, *Capridae*, *Caenorhabditis elegans*, *Drosophila melanogaster*, *Saccharomyces cerevisie*, *Schizosaccharomyces pombe* and *bovine* genomic DNA sequences

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003282

Description of Organism: *Schizosaccharomyces pombe* modified with standard cloning vectors containing cDNAs encoding members of the BPI-like family of proteins or encoding Stat5, bsp30, acetyl coA carboxylase, GAPDH, rRNA glucocorticoid receptor, Stat3, prolactin receptor, p100, C/EBP or NF-KB sourced from *Mus musculus*, *Rattus norvegicus*, *Homo sapiens*, *Bovidae*, *Ovidae*, *Capridae*, *Caenorhabditis elegans*, *Drosophila melanogaster*, *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe* and bovine genomic DNA sequences

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003283

Applicant: Massey University

Institute Code: GMO04/MU012

Application Code: GMD04075

Purpose: To teach undergraduate students about the safe generation and use of low risk, genetically modified organisms
Update of GMO00/MU048

Decision Notified: 22 July 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (K12 derivatives) modified with non-conjugative vectors containing fragments of genes, or whole genes, from bacterial, fungal, protozoan, animal (including human) or plant sources (excluding endangered (CITES-listed) species, indigenous flora and fauna, indigenous people) and excluding vertebrate toxin genes, uncharacterised sequences from pathogenic microorganisms, genes coding for infectious particles or whole genes from pathogenic microorganisms

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003236

Applicant: New Zealand Institute for Crop and Food Research Limited

Institute Code: GMO04/CFP001

Application Code: GMD04058

Purpose: To develop in containment species of the snapdragon genus *Antirrhinum* L. for the study of pigment biosynthesis through the generation of transgenic plants

Decision Notified: 11 August 2004

Description of Organism: *Agrobacterium tumefaciens* (Smith and Townsend 1907) Conn 1942

Agrobacterium tumefaciens (disarmed non-pathogenic strains e.g. LBA4404) modified with cloning or binary vectors, utilising non-conjugative plasmids. Donor DNA will encode genes for pigment biosynthesis sourced from flowering plants, pigment producing bacteria and fungi only. Donor DNA will be used to up- or down-regulate genes of interest (utilising a range of techniques including sense or antisense constructs, RNA interference, nucleotide substitution or sequence deletions).

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003271

Description of Organism: *Antirrhinum* (tissue cultures) modified with cloning or binary vectors, utilising non-conjugative plasmids. Donor DNA will encode genes for pigment biosynthesis sourced from flowering plants, pigment producing bacteria and fungi only. Donor DNA will be used to up- or down-regulate genes of interest (utilising a range of techniques including sense or antisense constructs, RNA interference, nucleotide substitution or sequence deletions).

Containment: PC1

Category: A

and

Antirrhinum (whole plants) modified with cloning or binary vectors, utilising non-conjugative plasmids. Donor DNA will encode genes for pigment biosynthesis sourced from flowering plants, pigment producing bacteria and fungi only. Donor DNA will be used to up- or down-regulate genes of interest (utilising a range of techniques including sense or antisense

constructs, RNA interference, nucleotide substitution or sequence deletions).

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003272

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (K12 or B derivatives containing non-conjugative plasmids) modified with cloning or binary vectors, utilising non-conjugative plasmids. Genomic DNA or cDNA libraries from the *Antirrhinum* genus may be created. Donor DNA will encode genes for pigment biosynthesis sourced from flowering plants, pigment producing bacteria and fungi only. Donor DNA will be used to up-or down-regulate genes of interest (utilising a range of techniques including sense or antisense constructs, RNA interference, nucleotide substitution or sequence deletions).

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003273

Description of Organism: *Pichia pastoris* modified with cloning or binary vectors, utilising non-conjugative plasmids. Donor DNA will encode genes for pigment biosynthesis sourced from flowering plants, pigment producing bacteria and fungi only. Donor DNA will be used to up-or down-regulate genes of interest (utilising a range of techniques including sense or antisense constructs, RNA interference, nucleotide substitution or sequence deletions).

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003274

Description of Organism: *Saccharomyces cerevisiae* modified with cloning or binary vectors, utilising non-conjugative plasmids. Donor DNA will encode genes for pigment biosynthesis sourced from flowering plants, pigment producing bacteria and fungi only. Donor DNA will be used to up-or down-regulate genes of interest (utilising a range of techniques including sense or antisense constructs, RNA

interference, nucleotide substitution or sequence deletions).

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003275

Applicant: University of Auckland

Institute Code: GMO04/UA001

Application Code: GMD04084

Purpose: Protein production for Crystallographic studies: 4.
Update of GMO00/UA050

Decision Notified: 09 July 2004

Description of Organism: *Bos taurus* cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003239

Description of Organism: *Canis familiaris* Linnaeus cell lines

Canis familiaris cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003240

Description of Organism: *Cercopithecus aethiops* cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003241

Description of Organism: *Cricetus cricetus* cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003242

Description of Organism: *Criteculus griseus* cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003243

Description of Organism: *Drosophila melanogaster* cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003244

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (non-pathogenic laboratory adapted strains) modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003245

Description of Organism: *Homo sapiens* cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003246

Description of Organism: *Microcricetus aureus* cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003247

Description of Organism: *Mus musculus* Linnaeus, 1758 cell lines

Mus musculus cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003248

Description of Organism: *Oryctolagus cunicula* cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003249

Description of Organism: *Ovis aries* cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003250

Description of Organism: *Pichia pastoris* modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003251

Description of Organism: *Rattus norvegicus* (Berkenhout, 1796) cell lines

Rattus norvegicus cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003252

Description of Organism: *Rattus rattus* cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003253

Description of Organism: *Saccharomyces cerevisiae* modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and

Staphylococcus aureus Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003254

Description of Organism: *Spodoptera frugiperda* cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003255

Description of Organism: *Sus scrofa* cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003256

Description of Organism: *Trichoplusia ni* (Huebner)

Trichoplusia ni cell lines modified with standard cloning vectors which are not self-transmissible with inserts encoding human (*Homo sapiens*) Murr 1, *Topoisomerases* IIa and IIb and *Staphylococcus aureus* Gyrase B

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003257

Applicant: University of Auckland

Institute Code: GMO04/UA014

Application Code: GMD04088

Purpose: Analysis of genetic alterations that contribute to reproductive and endocrine disorders

Decision Notified: 26 July 2004

Description of Organism: *Bos taurus* cell lines modified with non self-transmissible vectors with DNA from man, mouse, rat, cow, sheep, pig, deer, rabbit, possum, ferret, stoat and weasel encoding:

Cell surface receptors
 Cell surface signalling molecules
 Signal transduction molecules
 Transcriptional factor proteins
 Promoter elements for the above genes
 Promoter elements regulating apoptosis
 Fusion protein sequences
 Fluorescent reporter constructs
 Constructs used in assaying expression
 Sequence tags derived from mammalian mRNA

Sequences include sense and antisense constructs, nucleotide deletions and substitutions as well as RNA interference sequences.

Genes will not include toxins with an LD50 < 100 ug/kg

Genes will not encode for infectious particles

Nucleic acid will nt encode more than 2/3 viral genome

Genes will not be derived from CITES protected species

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003258

Description of Organism: *Chlorocebus aethiops* cell lines modified with non self-transmissible vectors with DNA from man, mouse, rat, cow, sheep, pig, deer, rabbit, possum, ferret, stoat and weasel encoding:

Cell surface receptors
 Cell surface signalling molecules
 Signal transduction molecules
 Transcriptional factor proteins
 Promoter elements for the above genes
 Promoter elements regulating apoptosis
 Fusion protein sequences
 Fluorescent reporter constructs
 Constructs used in assaying expression
 Sequence tags derived from mammalian mRNA

Sequences include sense and antisense constructs, nucleotide deletions and substitutions as well as RNA interference sequences.

Genes will not include toxins with an LD50 < 100 ug/kg

Genes will not encode for infectious particles

Nucleic acid will nt encode more than 2/3 viral genome

Genes will not be derived from CITES protected species

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003259

Description of Organism: *Criteculus griseus* cell lines modified with non self-transmissible vectors with DNA from man, mouse, rat, cow, sheep, pig, deer, rabbit, possum, ferret, stoat and weasel encoding:

Cell surface receptors
 Cell surface signalling molecules
 Signal transduction molecules
 Transcriptional factor proteins
 Promoter elements for the above genes
 Promoter elements regulating apoptosis
 Fusion protein sequences
 Fluorescent reporter constructs
 Constructs used in assaying expression
 Sequence tags derived from mammalian mRNA

Sequences include sense and antisense constructs, nucleotide deletions and substitutions as well as RNA interference sequences.

Genes will not include toxins with an LD50 < 100 ug/kg

Genes will not encode for infectious particles

Nucleic acid will nt encode more than 2/3 viral genome

Genes will not be derived from CITES protected species

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003260

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (non-pathogenic strains) modified with non self-transmissible vectors with DNA from man, mouse, rat, cow, sheep, pig, deer, rabbit, possum, ferret, stoat and weasel encoding:

- Cell surface receptors
- Cell surface signalling molecules
- Signal transduction molecules
- Transcriptional factor proteins
- Promoter elements for the above genes
- Promoter elements regulating apoptosis
- Fusion protein sequences
- Fluorescent reporter constructs
- Constructs used in assaying expression
- Sequence tags derived from mammalian mRNA

Sequences include sense and antisense constructs, nucleotide deletions and substitutions as well as RNA interference sequences.

Genes will not include toxins with an LD50 < 100 ug/kg

Genes will not encode for infectious particles

Nucleic acid will not encode more than 2/3 viral genome

Genes will not be derived from CITES protected species

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003261

Description of Organism: *Homo sapiens* cell lines modified with non self-transmissible vectors with DNA from man, mouse, rat, cow, sheep, pig, deer, rabbit, possum, ferret, stoat and weasel encoding:

- Cell surface receptors
- Cell surface signalling molecules
- Signal transduction molecules
- Transcriptional factor proteins
- Promoter elements for the above genes
- Promoter elements regulating apoptosis
- Fusion protein sequences
- Fluorescent reporter constructs

Constructs used in assaying expression
Sequence tags derived from mammalian mRNA

Sequences include sense and antisense constructs, nucleotide deletions and substitutions as well as RNA interference sequences.

Genes will not include toxins with an LD50 < 100 ug/kg

Genes will not encode for infectious particles

Nucleic acid will not encode more than 2/3 viral genome

Genes will not be derived from CITES protected species

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003262

Description of Organism: *Mus musculus* Linnaeus, 1758 cell lines

Mus musculus cell lines modified with non self-transmissible vectors with DNA from man, mouse, rat, cow, sheep, pig, deer, rabbit, possum, ferret, stoat and weasel encoding:

- Cell surface receptors
- Cell surface signalling molecules
- Signal transduction molecules
- Transcriptional factor proteins
- Promoter elements for the above genes
- Promoter elements regulating apoptosis
- Fusion protein sequences
- Fluorescent reporter constructs

Constructs used in assaying expression
Sequence tags derived from mammalian mRNA

Sequences include sense and antisense constructs, nucleotide deletions and substitutions as well as RNA interference sequences.

Genes will not include toxins with an LD50 < 100 ug/kg

Genes will not encode for infectious particles

Nucleic acid will not encode more than 2/3 viral genome

Genes will not be derived from CITES protected species

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003263

Description of Organism: *Ovis aries* modified with non self-transmissible vectors with DNA from man, mouse, rat, cow, sheep, pig, deer, rabbit, possum, ferret, stoat and weasel encoding:

Cell surface receptors

Cell surface signalling molecules

Signal transduction molecules

Transcriptional factor proteins

Promoter elements for the above genes

Promoter elements regulating apoptosis

Fusion protein sequences

Fluorescent reporter constructs

Constructs used in assaying expression

Sequence tags derived from mammalian mRNA

Sequences include sense and antisense constructs, nucleotide deletions and substitutions as well as RNA interference sequences.

Genes will not include toxins with an LD50 < 100 ug/kg

Genes will not encode for infectious particles

Nucleic acid will not encode more than 2/3 viral genome

Genes will not be derived from CITES protected species

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003264

Description of Organism: *Pichia pastoris* modified with non self-transmissible vectors with DNA from man, mouse, rat, cow, sheep, pig, deer, rabbit, possum, ferret, stoat and weasel encoding:

Cell surface receptors

Cell surface signalling molecules

Signal transduction molecules

Transcriptional factor proteins

Promoter elements for the above genes

Promoter elements regulating apoptosis

Fusion protein sequences

Fluorescent reporter constructs

Constructs used in assaying expression

Sequence tags derived from mammalian mRNA

Sequences include sense and antisense constructs, nucleotide deletions and substitutions as well as RNA interference sequences.

Genes will not include toxins with an LD50 < 100 ug/kg

Genes will not encode for infectious particles

Nucleic acid will not encode more than 2/3 viral genome

Genes will not be derived from CITES protected species

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003265

Description of Organism: *Rattus norvegicus* (Berkenhout, 1796) cell lines

Rattus norvegicus cell lines modified with non self-transmissible vectors with DNA from man, mouse, rat, cow, sheep, pig, deer, rabbit, possum, ferret, stoat and weasel encoding:

Cell surface receptors

Cell surface signalling molecules

Signal transduction molecules

Transcriptional factor proteins

Promoter elements for the above genes

Promoter elements regulating apoptosis

Fusion protein sequences

Fluorescent reporter constructs

Constructs used in assaying expression

Sequence tags derived from mammalian mRNA

Sequences include sense and antisense constructs, nucleotide deletions and substitutions as well as RNA interference sequences.

Genes will not include toxins with an LD50 < 100 ug/kg
Genes will not encode for infectious particles
Nucleic acid will not encode more than 2/3 viral genome
Genes will not be derived from CITES protected species
Containment: PC1
Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003266

Description of Organism: *Saccharomyces cerevisiae* modified with non self-transmissible vectors with DNA from man, mouse, rat, cow, sheep, pig, deer, rabbit, possum, ferret, stoat and weasel encoding:

Cell surface receptors
Cell surface signalling molecules
Signal transduction molecules
Transcriptional factor proteins
Promoter elements for the above genes
Promoter elements regulating apoptosis
Fusion protein sequences
Fluorescent reporter constructs
Constructs used in assaying expression
Sequence tags derived from mammalian mRNA
Sequences include sense and antisense constructs, nucleotide deletions and substitutions as well as RNA interference sequences.

Genes will not include toxins with an LD50 < 100 ug/kg
Genes will not encode for infectious particles
Nucleic acid will not encode more than 2/3 viral genome
Genes will not be derived from CITES protected species
Containment: PC1
Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003267

Applicant: University of Auckland
Institute Code: GMO04/UA017

Application Code: GMD04089

Purpose: To study Ecogenomics of *Acidovorax temperans*

Decision Notified: 26 July 2004

Description of Organism: *Acidovorax temperans* modified with non self-transmissible vectors including shuttle and transposon and suicide vectors with genomic sequence from *Acidovorax temperans*:

Genes will not include toxins with an LD50<100 ug/kg
Genes will not encode for infectious particle
Containment: PC1
Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003268

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (non-pathogenic strains) modified with non self-transmissible vectors including shuttle and transposon and suicide vectors with genomic sequence from *Acidovorax temperans*:

Genes will not include toxins with an LD50<100 ug/kg
Genes will not encode for infectious particle
Containment: PC1
Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003269

Applicant: University of Otago
Institute Code: GMO04/UO013

Application Code: GMD04086

Purpose: To explore the function of key genes, their cytoskeletal protein products and interacting proteins that are critical for organogenesis in the human embryo

Decision Notified: 04 July 2004

Description of Organism: *Homo sapiens* cell lines modified with vector and donor DNA.

Standard commercially available mammalian-bacterial non-conjugative

expression shuttle vectors with antibiotic resistance cassettes such as, pI-neo will be used. Examples of systems that may be utilised are those with viral promoters such as CMV or SV40, such as the Gateway Entry and Destination vector system (Invitrogen) designed for high level expression in mammalian cells. To obtain stable expression by site-directed incorporation into the host genome, a vector system such as the Flp-In system (Invitrogen) will be employed.

Human cell lines will be both transiently and stably transfected with human cDNAs corresponding to genes implicated in human development such as the filamin genes, both in their native form and as fusion proteins with epitope tags or sequences designed to facilitate their detection or purification in human cell lines eg GST, FLAG, GFP, poly histidine tags.

Homo sapiens genomic DNA will be sourced from:

- (a) Commercially obtained Human cDNA collections such as IMAGE clones; or
- (b) Genes and gene fragments obtained from clinical samples derived from patients, all resident overseas, enrolled in the study and obtained with informed consent specifically granting permission to manipulate and insert their genes into cells in the laboratory environment. No samples from Māori will be used in this study.

All or some of the above DNA fragments may be cloned in frame with sequences designed to enable the resultant fusion protein to be detected when expressed in mammalian cells. These tags will include, but not be restricted to FLAG, Glutathione-S-Transferase, and Green Fluorescent Protein.

The donor DNA shall not encode known vertebrate toxins or sequences that will produce particles able to infect humans, animals or plants.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003300

Applicant: University of Otago

Institute Code: GMO04/UO014

Application Code: GMD04087

Purpose: To produce strains of *Streptococcus pneumoniae* that are deficient in their autolysin gene, in order to investigate the impact this has on the susceptibility of *Streptococcus pneumoniae* to bacteriocins

Decision Notified: 06 July 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (k12 derivatives) modified with non-conjugative plasmid; *Streptococcus pneumoniae* lytA

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003270

Applicant: Horticulture and Food Research Institute (HortResearch Auckland)

Institute Code: GMO04/HRA084

Application Code: GMD04037

Purpose: To understand plant gene function and assessment of plant gene regulatory elements.
Update of GMO00/HRA037, GMO01/HRA053 and GMO02/HRA065

Decision Notified: 28 April 2004

Description of Organism: *Actinidia arguta* modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003344

Description of Organism: *Actinidia chinensis* modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003345

Description of Organism: *Actinidia eriantha* modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003346

Description of Organism: *Agrobacterium tumefaciens* (Smith and Townsend 1907) Conn 1942
Agrobacterium tumefaciens(disarmed strains) modified with Plasmids capable of

replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003347

Description of Organism: *Arabidopsis thaliana* (L.) Heynh (1842)

Arabidopsis thaliana modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003348

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin

genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003349

Description of Organism: *Lycopersicon esculentum* modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003350

Description of Organism: *Malus domestica* modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003351

Description of Organism: *Nicotiana benthamiana* modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003352

Description of Organism: *Nicotiana tabacum* modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003353

Description of Organism: *Petunia hybrida* modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003354

Description of Organism: *Vaccinium angustifolium* modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003355

Description of Organism: *Vaccinium ashei* modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003356

Description of Organism: *Vaccinium corybosum* modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003357

Description of Organism: *Vaccinium macrocarpon* modified with Plasmids capable of replicating in K12 and B strains of *Escherichia coli* that do not produce proteins pathogenic to vertebrates will be used as vectors for small and large insert fragments. Additional DNA sources include wheat, barley, rice or pumpkin genes, or sources previously approved in GMO00/HRA037 as well as plant virus regulatory sequences (eg from Figwort Mosaic Virus, Cotton Leaf Curl Multan Virus or Commelina Yellow Mottle Virus). The characterised viral sequences will make up less than 2/3 of a viral genome and be incapable of independent replication.

Containment: PC1 (enclosed tubs with no reproductive structures)

Category: A and

Containment: PC2 (whole plants)

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003358

Applicant: University of Waikato

Institute Code: GMO04/UW004

Application Code: GMD04070

Purpose: To clone archael genes for the construction of gene disruption vectors

Decision Notified: 18 June 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (K12 or B strains) modified with PCR fragments of nucleotide metabolic genes from *Thermococcus zilligii* or a related thermophilic archaean for DNA sequencing. pUC 19 plasmid or its derivative gene disruption vector containing *Thermococcus zilligii* or a related thermophilic archaean nucleotide metabolism and/or stationary phase stress response genes for production and amplification of a set of gene disruption vector plasmids.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003343

Applicant: Massey University

Institute Code: GMO04/MU013

Application Code: GMD04092

Purpose: To identify signalling proteins in mammalian cells that are important for regulating cell function

Decision Notified: 13 August 2004

Description of Organism: *Canis familiaris* cell lines (MDCK) modified with non-conjugative vectors containing mammalian (including human) copy DNA (cDNA) obtained from overseas-based commercial libraries. Human cDNA was obtained from tissue from anonymous donors. Excluded are cDNA from CITES species, Māori and NZ native flora and fauna.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003338

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (K12 or B derivatives) modified with non-conjugative vectors containing mammalian (including human) copy DNA (cDNA) obtained from overseas-based commercial libraries. Human cDNA was obtained from tissue from anonymous donors. Excluded are cDNA from CITES species, Māori and NZ native flora and fauna.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003339

Description of Organism: *Homo sapiens* cell lines (HEK293) modified with non-conjugative vectors containing mammalian (including human) copy DNA (cDNA) obtained from overseas-based commercial libraries. Human cDNA was obtained from tissue from anonymous donors. Excluded are cDNA from CITES species, Māori and NZ native flora and fauna.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003340

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus (Swiss 3T3 cell line) modified with non-conjugative vectors containing mammalian (including human) copy DNA (cDNA) obtained from overseas-based commercial libraries. Human cDNA was obtained from tissue from anonymous donors. Excluded are cDNA from CITES species, Māori and NZ native flora and fauna.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003341

Description of Organism: *Rattus norvegicus* (Berkenhout, 1796)

Rattus norvegicus cell line (B35) modified with non-conjugative vectors containing mammalian (including human) copy DNA (cDNA) obtained from overseas-based commercial libraries. Human cDNA was obtained from tissue from anonymous donors. Excluded are cDNA from CITES species, Māori and NZ native flora and fauna.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003342

Applicant: Landcare Research New Zealand Limited

Institute Code: GMO04/HRA090

Application Code: GMD04093

Purpose: To isolate specific genes from New Zealand native stick insects by transforming *Escherichia coli* bacteria so these genes can be further characterised through DNA sequencing

Decision Notified: 12 August 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (K12 and B strains) modified with pCR4-TOPO and pCR3.1 cloning vectors from Invitrogen containing DNA from New Zealand native stick insects.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003334

Applicant: Horticulture and Food Research Institute (HortResearch Auckland)

Institute Code: GMO04/HRA088

Application Code: GMC04012

Purpose: To import largely nonviable pollen collected from Bt-sweet corn grown commercially in Canada in order to ascertain its effects when fed to the beneficial non-target insects, bumble bees (*Bombus terrestris*) and honeybees (*Apis mellifera*)

Decision Notified: 12 August 2004

Description of Organism: *Zea mays* modified with cry1Ab gene (*Bacillus thuringiensis* subspecies kurstaki), pat gene (*Streptomyces viridochromogenes*), CaMV 35S promoter (cauliflower mosaic virus), nos 3'-polyadenylation signal (*Agrobacterium tumefaciens*), introns IVS 2 and IVS 6 alcohol dehydrogenase gene (maize)

Decision: Approved with Controls

ERMA Approval Code: GMC001242

Applicant: Horticulture and Food Research Institute (HortResearch Auckland)

Institute Code: GMO04/HRA089

Application Code: GMD04094

Purpose: To change the containment status of the host *Pichia pastoris*, to include the closely related host *Pichia methanolyica*, and to enable use of new transformation vectors

Decision Notified: 12 August 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (K12 and B strains) modified with plasmid cloning or expression vectors containing single genes from apple, arabidopsis, kiwifruit, petunia, ryegrass and blueberry plants and fungal DNA from *Neurospora crassa*, *Venturia inaequalis* and other *Venturia* species, *Glomerella cingulata* and *Colletotrichum gloeosporioides* and other *Colletotrichum* species, *Botrytis cinerea*, *Fusarium solani* and other *Fusarium* species (excluding known mammalian toxins)

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003335

Description of Organism: *Pichia methanolica* (commercially available strains) modified with plasmid cloning or expression vectors containing single genes from apple, arabidopsis, kiwifruit, petunia, ryegrass and blueberry plants and fungal DNA from *Neurospora crassa*, *Venturia inaequalis* and other *Venturia* species, *Glomerella cingulata* and *Colletotrichum gloeosporioides* and other *Colletotrichum* species, *Botrytis cinerea*, *Fusarium solani* and other *Fusarium* species (excluding known mammalian toxins)

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003336

Description of Organism: *Pichia pastoris* (commercially available strains) modified with plasmid cloning or expression vectors containing single genes from apple, arabidopsis, kiwifruit, petunia, ryegrass and blueberry plants and fungal DNA from *Neurospora crassa*, *Venturia inaequalis* and other *Venturia* species, *Glomerella cingulata* and *Colletotrichum gloeosporioides* and other *Colletotrichum* species, *Botrytis cinerea*, *Fusarium solani* and other *Fusarium* species (excluding known mammalian toxins)

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003337

Applicant: Massey University - Albany Campus

Institute Code: GMO04/MU010

Application Code: GMD04074

Purpose: To characterise the role of DNA topology, and cis- and trans- acting factors in the regulation of RNA PoII and RNA PoIII mediated gene transcription in *Saccharomyces cerevisiae*

Decision Notified: 22 July 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (Non-pathogenic strains) modified with integrative and non-integrative vectors to knock out or knock in genes involved in transcription regulation, histone modification, chromatin formation and chromosome packaging sourced from non-pathogenic microorganisms, animals (excluding

humans) and plants; also includes gene regulatory elements, reporter and selectable marker genes; modifications shall exclude human DNA, DNA from native flora or fauna, infectious viral particles, DNA from pathogenic organisms, vertebrate toxin-producing genes or CITES listed species

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003237

Description of Organism: *Saccharomyces cerevisiae* modified with integrative and non-integrative vectors to knock out or knock in genes involved in transcription regulation, histone modification, chromatin formation and chromosome packaging sourced from non-pathogenic microorganisms, animals (excluding humans) and plants; also includes gene regulatory elements, reporter and selectable marker genes; modifications shall exclude human DNA, DNA from native flora or fauna, infectious viral particles, DNA from pathogenic organisms, vertebrate toxin-producing genes or CITES listed species

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003238

DEEMED APPROVALS

In accordance with section 55 of the Hazardous Substances and New Organisms Amendment Act 2003, ERMA New Zealand has received notice that the following applicants are holding genetically modified human cell(s) as indicated:

Applicant: University of Auckland

Date Notification Received: GMO04/UA022

Organism Description and ERMA New Zealand Approval Code:

Unique Identifier: *Homo sapiens* HT 29 human colon cell line

Nature and Range of the Genetic Modification: *Homo sapiens* cell line containing human TNF gene

Containment Facility: PC1

Category of Host Organism: Category 1

Category of Genetic Modification: Category A

Approval Code: PRE000767

Controls:

In considering all the matters to be addressed detailed in the Third Schedule Part I Containment Controls for Importing, Developing or Field Testing of Genetically Modified Organisms of the HSNO Act, the IBSC approval of the organism(s) is subject to the following controls:

1. The operation, management and construction of the facility shall be in accordance with the:
 - a) The MAF Biosecurity Authority/ERMA New Zealand Standard 154.03.02 and
 - b) The Australian/New Zealand Standard (AS/NZS) 2243.3:2002 Safety in Laboratories: Part 3: Microbiological aspects and containment facilities, at Physical Containment Level 1 (PC1) as amended by MAF Standard 154.03.02.
2. The facility shall be approved and registered by MAF Biosecurity Authority as a containment facility under section 39 of the Biosecurity Act, in accordance with the MAF Biosecurity Authority/ERMA New Zealand Standard 154.03.02.
3. All approved organism culture products and associated materials shall be autoclaved or incinerated before being disposed of.
4. If for any reason a breach of containment occurs the applicant shall notify the facility Supervisor and ERMA New Zealand immediately the event is noticed (and at least within 24 hours of the breach being detected) and shall immediately implement a contingency plan for the recovery and eradication of any organisms or viable material that has escaped.
5. The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facilities at any reasonable time.

Additional controls

6. List any additional controls
 - a) The Biological Safety Offer will be notified of any accident or incident involving GMOs.
 - b) The Principle Investigator in charge of this project has the responsibility to ensure work practices in the laboratory meet AS/NZS 2243.3: 2003 "Safety in the Laboratory: Microbiology".
-

Applicant: University of Auckland

Date Notification Received: GMO04/UA022

Organism Description and ERMA New Zealand Approval Code:

Unique Identifier: *Homo sapiens* HT 29 human melanoma cell line

Nature and Range of the Genetic Modification:
Homo sapien cell line containing human TNF gene

Containment Facility: PC1

Category of Host Organism: Category 1

Category of Genetic Modification: Category A

Approval Code: PRE000768

Controls:

In considering all the matters to be addressed detailed in the Third Schedule Part I Containment Controls for Importing, Developing or Field Testing of Genetically Modified Organisms of the HSNO Act, the IBSC approval of the organism(s) is subject to the following controls:

1. The operation, management and construction of the facility shall be in accordance with the:
 - a) The MAF Biosecurity Authority/ERMA New Zealand Standard 154.03.02 and
 - b) The Australian/New Zealand Standard (AS/NZS) 2243.3:2002 Safety in Laboratories: Part 3: Microbiological aspects and containment facilities, at Physical Containment Level 1 (PC1) as amended by MAF Standard 154.03.02.
2. The facility shall be approved and registered by MAF Biosecurity Authority as a containment facility under section 39 of the Biosecurity Act, in accordance with the MAF Biosecurity Authority/ERMA New Zealand Standard 154.03.02.
3. All approved organism culture products and associated materials shall be autoclaved or incinerated before being disposed of.
4. If for any reason a breach of containment occurs the applicant shall notify the facility Supervisor and ERMA New Zealand immediately the event is noticed (and at least within 24 hours of the breach being detected) and shall immediately implement a contingency plan for the recovery and eradication of any organisms or viable material that has escaped.
5. The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facilities at any reasonable time.

Additional controls

6. List any additional controls
 - a) The Biological Safety Offer will be notified of any accident or incident involving GMOs.
 - b) The Principle Investigator in charge of this project has the responsibility to ensure work practices in the laboratory meet AS/NZS 2243.3: 2003 “Safety in the Laboratory: Microbiology”.

Applicant: University of Auckland**Institution Code: GMO04/UA021****Date Notification Received:** 04 August 2004**Organism Description and ERMA New Zealand Approval Code:****Unique Identifier:** *Homo sapiens* Pheonix 293T helper cell line**Nature and Range of the Genetic Modification:**
Stably transfected with Moloney GagPol-IRES-Lyt2 construct**Containment Facility:** PC1**Category of Host Organism:** Category 1**Category of Genetic Modification:** Category A**Approval Code:** PRE000769
.....**Controls:**

In considering all the matters to be addressed detailed in the Third Schedule Part I Containment Controls for Importing, Developing or Field Testing of Genetically Modified Organisms of the HSNO Act, the IBSC approval of the organism(s) is subject to the following controls:

1. The operation, management and construction of the facility shall be in accordance with the:
 - c) The MAF Biosecurity Authority/ERMA New Zealand Standard 154.03.02 and
 - d) The Australian/New Zealand Standard (AS/NZS) 2243.3:2002 Safety in Laboratories: Part 3: Microbiological aspects and containment facilities, at Physical Containment Level 1 (PC1) as amended by MAF Standard 154.03.02.
2. The facility shall be approved and registered by MAF Biosecurity Authority as a containment facility under section 39 of the Biosecurity Act, in accordance with the MAF Biosecurity Authority/ERMA New Zealand Standard 154.03.02.

3. All approved organism culture products and associated materials shall be autoclaved or incinerated before being disposed of.
4. If for any reason a breach of containment occurs the applicant shall notify the facility Supervisor and ERMA New Zealand immediately the event is noticed (and at least within 24 hours of the breach being detected) and shall immediately implement a contingency plan for the recovery and eradication of any organisms or viable material that has escaped.
5. The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facilities at any reasonable time.

Additional controls

6. List any additional controls
 - a) The Biological Safety Offer will be notified of any accident or incident involving GMOs.
 - b) The Principle Investigator in charge of this project has the responsibility to ensure work practices in the laboratory meet AS/NZS 2243.3: 2003 “Safety in the Laboratory: Microbiology”.

AMENDMENTS TO APPROVALS

Under section 67A of the HSNO Act the Environmental Risk Management Authority may amend any approval given under Part V of the Act if it considers that the lateration is minor in effect or corrects a minor or technical error.

The following amendments were decided by institutions acting under delegated powers from the Authority.

Applicant: University of Auckland**Institute Code: GMO00/UA052****Application Code: GMD00319****Purpose:** Study of genes involved in neurodegenerative disorders such as Alzheimer’s disease, stroke and Parkinson’s disease**Decision Amendment Date:** 09 July 2004**Reason Decision Amended:** Amendment is required to more accurately describe the host organisms and to change the physical containment conditions.

Applicant: University of Auckland

Institute Code: GMO00/UA062

Application Code: GMD00347

Purpose: To study the relationship between bacterial flora and mucin barrier in the gut. The study has the long-term aim of understanding disturbances of this relationship in disease with the possibility of developing diagnostic tests

Decision Amendment Date: 09 August 2004

Reason Decision Amended: Amended to change the physical containment level as classification of organisms under new Regulations is different.

Applicant: University of Auckland

Institute Code: GMO00/UA068

Application Code: GMD01064

Purpose: To study the role of proteases and protease inhibitors in mammalian cells
Update of GMO00/UA055

Decision Amendment Date: 09 July 2004

Reason Decision Amended: Amended to more accurately describe the host organisms and to change the physical containment conditions.

Applicant: University of Auckland

Institute Code: GMO00/UA023

Application Code: GMD01128

Purpose: To study the causes of nerve cell death, survival and plasticity which may result in a greater understanding of stroke, Alzheimer's and Parkinson's disease
Update of GMO00/UA008

Decision Amendment Date: 09 July 2004

Reason Decision Amended: Amendment required to more accurately describe the host organisms, and change the physical containment level.

Applicant: University of Auckland

Institute Code: GMO01/UA017

Application Code: GMD01185

Purpose: To study dynamics of Alzheimer's disease
This is an update of GMO00/UA052

Decision Amendment Date: 09 July 2004

Reason Decision Amended: Amended to more accurately describe the host organisms and to change the physical containment conditions.

Applicant: University of Auckland

Institute Code: GMO01/UA018

Application Code: GMD01186

Purpose: To study dynamics of Alzheimer's disease
This is an update of GMO00/UA052

Decision Amendment Date: 09 July 2004

Reason Decision Amended: Amended to more accurately describe the host organisms and to change the physical containment level.

Applicant: University of Auckland

Institute Code: GMO02/UA017

Application Code: GMD02103

Purpose: To enable X-ray crystallographic studies of recombinant proteins
Update of GMO00/UA050

Decision Amendment Date: 09 July 2004

Reason Decision Amended: Amended to change the physical containment levels.

Applicant: University of Auckland

Institute Code: GMO02/UA027

Application Code: GMD02123

Purpose: To include the application of RNA interference methodology to the study of neuroendocrine cell biology
Update of GMO00/UA055,
GMO00/UA068, GM02/UA010

Decision Amendment Date: 09 July 2004

Reason Decision Amended: Amended to more accurately describe the host organisms and to change the physical containment levels.

Applicant: University of Auckland

Institute Code: GMO99/UA008

Application Code: GMD99103

Purpose: To provide a high efficiency mammalian expression system for the production of recombinant proteins to investigate their functions and to help understand how nerve cells die in diseases such as Stroke, Alzheimer's, Parkinson's and Huntington's disease

Decision Amendment Date: 09 July 2004

Reason Decision Amended: Amendment required to more accurately describe the host organisms and to change the physical containment level.

Applicant: University of Auckland

Institute Code: GMO03/UA014

Application Code: GMD03065

Purpose: To identify and characterise Apple genes involved in controlling flowering and vegetative growth in the cultivar “Pacific Rose”

Decision Amendment Date: 09 July 2004

Reason Decision Amended: Amended to change original classification (Category B) of *Agrobacterium tumefaciens* (GMO03/UA014) to Category A in accordance with HSNO (Low-Risk Genetic Modification Regulations 2003).

HAZARDOUS SUBSTANCES

NOTIFIED APPLICATIONS AND PUBLIC SUBMISSIONS

The applications in the Bulletin are for reference only. Our public notification process includes alerts in four main daily newspapers with the full information and submission forms available on our website.

To ensure that you are advised directly about applications open for public submission contact us at info@erманz.govt.nz to be added to our interested party list. You will need to nominate the types of applications that you are interested in.

Applicant: Osmose New Zealand

Application Code: HSR03028

Purpose: To manufacture ACQ Timber Preservative, a combination fungicide/insecticide treatment for timber and wood products

Date Publicly Notified: 12 August 2004

Date Submissions Close: 23 September 2004

Applicant: Polychem Marketing Limited

Application Code: HSR04038

Purpose: To import Limed Rosin Solution, a raw material in the paint, ink and varnish industries

Date Publicly Notified: 26 August 2004

Date Submissions Close: 07 October 2004

Applicant: DyStar Singapore Pte. Limited

Application Code: HSR04013

Purpose: To import Supralan Grey C-G, Supralan Red C-G and Supralan Yellow C-2R, which are dyestuffs for the dyeing of wool

Date Publicly Notified: 30 August 2004

Date Submissions Close: 11 October 2004

Applicant: ANCARE New Zealand Limited

Application Code: HSR04035

Purpose: To manufacture and release Drench 55AE, an anthelmintic for use in ruminants.

Date Publicly Notified: 30 August 2004

Date Submissions Close: 11 October 2004

NON-NOTIFIED APPLICATIONS RECEIVED

Applicant: Syngenta Crop Protection Limited

Application Code: HSC04019

Purpose: To import into containment NZH1 to conduct field trials to evaluate whether the substance is suitable for use in New Zealand agriculture and horticulture, and to provide data for future applications to ERMA New Zealand and ACVM

Date Formally Received: 11 August 2004

Applicant: Orion Crop Protection Limited

Application Code: HSR04043

Purpose: To import or manufacture G Force Max, a reformulation of an existing herbicide

Date Formally Received: 12 August 2004

Applicant: New Zealand Institute for Crop and Food Research Limited

Application Code: HSC04014

Purpose: To trial, in containment, the substance Mitemist Envirosol to obtain efficacy and residue data

Date Formally Received: 12 August 2004

Applicant: Syngenta Crop Protection Limited

Application Code: HSC04021

Purpose: To import into containment the substance NZF3 to conduct field trials

Date Formally Received: 19 August 2004

Applicant: Syngenta Crop Protection Limited

Application Code: HSC04022

Purpose: To import into containment the substance NZH2 to conduct field trials

Date Formally Received: 19 August 2004

Applicant: Syngenta Crop Protection Limited

Application Code: HSC04023

Purpose: To import into containment the substance NZH3 to conduct field trials

Date Formally Received: 19 August 2004

DECISIONS ON APPLICATIONS

Applicant: ERMA New Zealand

Application Code: RES04001

Purpose: To determine whether there are grounds for reassessment of registered pesticides containing hydrogen cyanamide (520-530 g/litre). These substances are used as plant growth regulators in kiwifruit and some pipfruit

Decision Notified: 06 August 2004

Decision: Grounds exist for reassessment

Identifier for Substance: Soluble concentrates containing 520 - 530 g/L hydrogen cyanamide

Applicant: Dow AgroSciences

Application Code: HSR03055

Purpose: To obtain approval to import and release the formulated substance Prodigy for use on New Zealand crops for the control of specific insect pests

Decision Notified: 11 August 2004

Decision: Approved with Controls

Identifier for Substance: Prodigy

Classification: 9.1B aquatic ecotoxicant, 9.4A terrestrial invertebrate toxicant

ERMA Approval Code: HSR000130

Controls:

Control Code ¹	Regulation ²	Explanation ³
Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 - Ecotoxic Property Controls		
E1	32–45	Limiting exposure to ecotoxic substances
E2	46–48	Restrictions on use within application area
E5	5(2), 6	Requirements for keeping records of use
E6	7	Requirements for equipment used to handle hazardous substances
E7	9	Approved handler requirements
E8	10	Restrictions on the carriage of hazardous substances on passenger service vehicles
Hazardous Substances (Identification) Regulations 2001		
I1	6, 7, 32–35, 36 (1)–(7)	General identification requirements
I3	9	Priority identifiers for ecotoxic substances
I9	18	Secondary identifiers for all hazardous substances
I11	20	Secondary identifiers for ecotoxic substances
I19	29-31	Alternative information in certain cases

1 Note: The numbering system used in this column relates to the coding system used in the ERMA New Zealand Controls Matrix. This links the hazard classification categories to the regulatory controls triggered by each category. It is available from the ERMA New Zealand website www.ermanz.govt.nz/resources and is also contained in the *ERMA New Zealand User Guide to the Controls Regulations*.

2 These Regulations form the controls applicable to this substance. Refer to the cited Regulations for the formal specification, and for definitions and exemptions. The accompanying explanation is intended for guidance only.

3 These explanations are for guidance only. Refer to the cited Regulations for the formal specification, and for definitions and exemptions.

I21	37–39, 47–50	Documentation required in places of work
I23	41	Specific documentation requirements for ecotoxic substances
I29	51-52	Duties of persons in charge of places with respect to signage
Hazardous Substances (Packaging) Regulations 2001		
P1	5, 6, 7 (1), 8	General packaging requirements
P3	9	Packaging requirements for substances packed in limited quantities
P15	21	Packaging requirements for ecotoxic substances
PG3	Schedule 3	This schedule provides the test methods for packaging required to be tested in accordance with this schedule. The tests in Schedule 3 correlate to the packaging requirements of UN Packing Group III (UN PGIII).
Hazardous Substances (Disposal) Regulations 2001		
D5	9	Disposal requirements for ecotoxic substances
D6	10	Disposal requirements for packages
D7	11, 12	Disposal information requirements
D8	13, 14	Disposal documentation requirements
Hazardous Substances (Emergency Management) Regulations 2001		
EM1	6, 7, 9–11	Level 1 emergency management information: General requirements
EM7	8(f)	Information requirements for ecotoxic substances
EM8	12–16, 18–20	Level 2 emergency management information requirements
EM11	25–34	Level 3 emergency management requirements – emergency response plans
EM12	35–41	Level 3 emergency management requirements – secondary containment
EM13	42	Level 3 emergency management requirements – signage
Hazardous Substances (Personnel Qualification) Regulations 2001		
AH1	4-6	Approved Handler requirements (including test certificate and qualification requirements)
Hazardous Substances (Tank Wagon) Regulations 2001		
If 1000 litre transportable containers are to be transported into or within New Zealand, the appropriate Regulations under the Hazardous Substances (Tank Wagons and Transportable Containers) Regulations shall apply.		
Section 77A controls		
Prodigy shall only be used for ground-based application to outdoor crops, at no greater than the maximum application rate established for this substance.		
The following ADE and PDE shall apply to Prodigy:		
ADE for methoxyfenozide = 0.10 mg/kg bw/day		
PDE _{FOOD} for methoxyfenozide = 0.08 mg/kg bw/day		
PDE _{DRINKING WATER} for methoxyfenozide = 0.02 mg/kg bw/day		

Applicant: Syngenta Crop Protection Limited

Application Code: HSR04016

Purpose: To import and release the substance ACANTO, a fungicide used for the control of diseases in barley and wheat

Decision Notified: 25 August 2004

Decision: Approved with Controls

Identifier for Substance: ACANTO

Classification: 9.1A Aquatic Ecotoxicant, 9.2B Terrestrial Invertebrate Toxicant

ERMA Approval Code: HSR000131

Controls:

Control Code ⁴	Regulation ⁵	Explanation ⁶
Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 - Ecotoxic Property Controls		
E1	32–45	Limiting exposure to ecotoxic substances
E2	46–48	Restrictions on use within application area
E5	5(2), 6	Requirements for keeping records of use
E6	7	Requirements for equipment used to handle ACANTO
E7	9	Approved handler requirements
E8	10	Restrictions on the carriage of ACANTO on passenger service vehicles
Hazardous Substances (Identification) Regulations 2001		
I1	6, 7, 32–35, 36 (1)–(7)	General identification requirements
I3	9	Priority identifiers for ecotoxic substances
I9	18	Secondary identifiers for all hazardous substances
I11	20	Secondary identifiers for ecotoxic substances
I19	29–31	Alternative information in certain cases
I21	37–39, 47–50	Documentation required in places of work
I23	41	Specific documentation requirements for ecotoxic substances
I29	51–52	Duties of persons in charge of places with respect to signage
Hazardous Substances (Packaging) Regulations 2001		
P1	5, 6, 7 (1), 8	General packaging requirements
P3	9	Packaging requirements for substances packed in limited quantities
P15	21	Packaging requirements for ecotoxic substances
PG3	Schedule 3	This schedule provides the test methods for packaging required to be tested in accordance with this schedule. The tests in Schedule 3 correlate to the packaging requirements of UN Packing Group III (UN PGIII).

4 Note: The numbering system used in this column relates to the coding system used in the ERMA New Zealand Controls Matrix. This links the hazard classification categories to the regulatory controls triggered by each category. It is available from the ERMA New Zealand website www.ermanz.govt.nz/resources and is also contained in the *ERMA New Zealand User Guide to the Controls Regulations*.

5 These Regulations form the controls applicable to this substance. Refer to the cited Regulations for the formal specification, and for definitions and exemptions. The accompanying explanation is intended for guidance only.

6 These explanations are for guidance only. Refer to the cited Regulations for the formal specification, and for definitions and exemptions.

Hazardous Substances (Disposal) Regulations 2001		
D5	9	Disposal requirements for ecotoxic substances
D6	10	Disposal requirements for packages
D7	11, 12	Disposal information requirements
D8	13, 14	Disposal documentation requirements
Hazardous Substances (Emergency Management) Regulations 2001		
EM1	Regulations 6, 7, Level 1 emergency management information: General requirements 9–11	
EM7	8(f)	Information requirements for ecotoxic substances
EM8	12–16, 18–20	Level 2 emergency management information requirements
EM11	25–34	Level 3 emergency management requirements – emergency response plans
EM12	35–41	Level 3 emergency management requirements – secondary containment
EM13	42	Level 3 emergency management requirements – signage
Hazardous Substances (Personnel Qualification) Regulations 2001		
AH1	4–6	Approved Handler requirements (including test certificate and qualification requirements)
Additional Controls under Section 77A		
ACANTO shall only be used for application to cereal crops.		

DELEGATED AUTHORITY

The Chief Executive of the Environmental Risk Management Authority, acting under delegated power from the Authority, reached a decision on the following applications:

Applicant: Fort Dodge New Zealand Limited

Application Code: HSC04015

Purpose: To import into containment two anthelmintic formulations to test their efficacy against natural parasite infections in cattle and to obtain residue data

Decision Notified: 17 August 2004

Decision: Approved with Controls

Identifier for Substance: AN0466-128-1 and AN0466-129-1

ERMA Approval Code: HSC000100-1

Controls:

1. The trials shall be undertaken in accordance with the Management Plan which accompanied the application. Modifications of the

Management Plan may be approved in writing by ERMA New Zealand providing that they comply with the following controls.

2. Notwithstanding the requirements of control 1 above, the trials shall also comply with the following controls:
3. The substances shall be applied to the animals in appropriate cattle yards. The trial shall be conducted in such a way as to prevent the substances entering any surface water or groundwater system.
4. Access to the trial site shall be by permission of the Trial Director⁷ or owner of the property on which it is located. The primary access points shall be signed indicating that unauthorised access is not allowed and that a trial is being conducted on the site.
5. The substances shall be stored in accordance with good practice. This would generally be achieved through compliance with the Code of Practice for the Management of Agrichemicals NZS8409.

⁷ The Trial Director is the individual appointed by the applicant to be responsible for the overall conduct of the trial in accordance with the Management Plan and approval controls.

6. The substances shall be securely packed in suitable containers that comply with the Hazardous Substances (Packaging) Regulations 2001, and shall be labelled in accordance with the Hazardous Substances (Identification) Regulations 2001. MSDS for both substances shall accompany each shipment.
7. The substances shall be transported in accordance with good practice. This may require compliance with the Land Transport Rule: Dangerous Goods 1999.
8. AN0466-128-1 shall be injected subcutaneously in the neck region of the animals using standard methods with a syringe. AN0466-129-1 shall be applied to the skin along the back of the animals using standard methods with a commercial applicator designed for the purpose. The equipment used shall be rinsed after use with the appropriate detergent or decontaminant, and rinsate disposed of in an appropriate manner which does not pose a risk to the aquatic environment or to human health and safety.
9. Treated animals shall be slaughtered and the carcasses disposed of by an approved method. No treated animals shall be consumed by people or animals or offered for sale.
10. Surplus substance remaining at the end of the trials shall be returned to Fort Dodge New Zealand Ltd for secure storage in an exempt laboratory, exported or disposed of by an approved method (note that once the trials are completed the substances do not have approval to be present in New Zealand except in an exempt laboratory).
11. Any accidental spillage of the substances shall be contained, prevented from entering waterways, and absorbed with an appropriate absorbent material. This material shall be placed in sealed containers and disposed of at an appropriate waste disposal facility (which may include a landfill), subject to the facility's waste acceptance policy.
12. A record shall be kept of all use of the substances. This record shall cover all matters referred to in Regulation 6 of the Hazardous Substances (Class 6, 8 and 9 Controls) Regulations 2001.
13. Information on appropriate safety precautions necessary to provide safeguards against the substances' ecotoxic properties shall accompany the substances at all stages of their lifecycle. Safety glasses, gloves and protective clothing shall be worn when handling the substances throughout their lifecycle.
14. Occupational Safety and Health, Head Office [Attn. HSNO Project Manager (OSH) or equivalent position] and ERMA New Zealand shall be informed in writing (by letter, fax or

email) of the location, start, and completion of the trials. Notifications shall include the following details:

Substance name	AN0466-128-1
ERMA Application number	HSC04015
ERMA Approval number	HSC000100
ERMA Applications Adviser	Amanda McKenzie

Substance name	AN0466-129-1
ERMA Application number	HSC04015
ERMA Approval number	HSC000101
ERMA Applications Adviser	Amanda McKenzie

15. If for any reason a breach of containment occurs, the Trial Director shall notify OSH and ERMA New Zealand within 24 hours of the breach being detected. It is suggested that if a breach in containment results in contamination of a waterway, the relevant iwi authorities be advised.
16. The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facilities and trial sites at any reasonable time.
17. This approval remains in place for the term of any concurrent approval required under the Agricultural Compounds and Veterinary Medicines Act 1997, to a maximum of five years.
18. The maximum total quantity that shall be imported under this approval is 500mL of AN0466-128-1 and 500mL of AN0466-129-1.

Applicant: Koppers Arch Wood Protection (New Zealand) Limited

Application Code: HSR04018

Purpose: To obtain approval to manufacture Copper Naphthenate Formulations Type 5 and Type 6, for the preservation of timber

Decision Notified: 08 June 2004

Decision: Declined through the Rapid Assessment Route

Identifier for Substance: Copper Naphthenate Formulation Type 5 and Copper Naphthenate Formulation Type 6

TEST CERTIFIERS

The Chief Executive of the Environmental Risk Management Authority, acting under delegated power from the Authority, reached decisions on the following applications. The full requirements and limitations for the following Test Certifiers is available on our public register or website.

Applicant: Graham Voss

Region: Taranaki

Decision: Approved with Limitations

Date of Approval: 12 August 2004

ERMA Approval Code: TST000083

Applicant: Jacqueline Herd

Region: Auckland

Decision: Approved with Limitations

Date of Approval: 17 August 2004

ERMA Approval Code: TST000082

Applicant: Mike Hermansson

Region: Wellington

Decision: Approved with Limitations

Date of Approval: 20 August 2004

ERMA Approval Code: TST000087

Applicant: Colin Spence

Region: Manawatu-Wanganui

Decision: Approved with Limitations

Date of Approval: 20 August 2004

ERMA Approval Code: TST000086

Applicant: Linda Ballard

Region: Nelson

Decision: Approved with Limitations

Date of Approval: 20 August 2004

ERMA Approval Code: TST000084

Applicant: Brian Calcinaï

Region: Hawkes Bay

Decision: Approved with Limitations

Date of Approval: 20 August 2004

ERMA Approval Code: TST000085

Applicant: Graham Collins

Region: Wellington

Decision: Approved with Limitations

Date of Approval: 25 August 2004

ERMA Approval Code: TST000088

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