

US EPA ARCHIVE DOCUMENT



# **Registration Review: Microbial Cases Schedule: 2009-2012**

**December 17, 2008**

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

1 of 48

| (A)<br>Reg<br>Rev<br>Case # | (B) Registration Review Case<br>Name | (C)<br>RED<br>Case<br># | (D) PC<br>Code | (E) CAS #  | (F) Active Ingredient Name                                                                                                                                                | (G) Chem<br>Class | (H) Schedule<br>Change | (I)<br>Baseline<br>Date | (J) First<br>Registered | (K) RED<br>Status | (L) RED<br>Status<br>Date | (M) Fiscal Yr<br>Scheduled | (N) Docket<br>Opened | (O) Final<br>Work Plan | (P)<br>Case<br>Count | (Q) AI<br>Count |
|-----------------------------|--------------------------------------|-------------------------|----------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------|-------------------------|-------------------------|-------------------|---------------------------|----------------------------|----------------------|------------------------|----------------------|-----------------|
| 6050                        | Trichoderma species                  |                         | 119200         | #N/A       | Dried fermentation solids and solubles resulting from fermentation of Trichoderma harzianum isolate T-39, containing T-39 fungus propagules, as either conidia or mycelia |                   |                        | 07/24/89                | 05/30/96                |                   |                           | 2007                       | 04/11/07             | 08/24/07               | 1                    | 1               |
| 6050                        | Trichoderma species                  |                         | 119202         | 67892-31-3 | Trichoderma harzianum Rifai (variety); KRL-AG2 (strain)                                                                                                                   |                   |                        | 07/24/89                | 05/21/93                |                   |                           | 2007                       | Same                 | Same                   | 1                    | 2               |
| 6050                        | Trichoderma species                  |                         | 128902         | #N/A       | Trichoderma polysporum (ATCC 20475)                                                                                                                                       |                   |                        | 07/24/89                | 07/24/89                |                   |                           | 2007                       | Same                 | Same                   | 1                    | 3               |
| 6050                        | Trichoderma species                  |                         | 128903         | 67892-34-6 | Trichoderma viride (ATCC 20476)                                                                                                                                           |                   |                        | 07/24/89                | 07/24/89                |                   |                           | 2007                       | Same                 | Same                   | 1                    | 4               |
| 6007                        | Pseudomonas syringae                 |                         | 006411         | 68602-93-7 | Pseudomonas Syringae 742RS                                                                                                                                                |                   | *                      | 09/06/92                | 09/06/92                |                   |                           | 2007                       | 09/27/07             | 01/03/08               | 2                    | 5               |
| 6007                        | Pseudomonas syringae                 |                         | 006441         | 68583-32-4 | Pseudomonas syringae, strain ESC-10                                                                                                                                       |                   | *                      | 09/06/92                | 04/14/94                |                   |                           | 2007                       | Same                 | Same                   | 2                    | 6               |
| 6007                        | Pseudomonas syringae                 |                         | 006451         | #N/A       | Pseudomonas syringae, strain ESC-11                                                                                                                                       |                   | *                      | 09/06/92                | 05/09/96                |                   |                           | 2007                       | Same                 | Same                   | 2                    | 7               |
| 6006                        | Pseudomonas fluorescens              |                         | 006438         | #N/A       | Pseudomonas fluorescens A506 (previously coded 006418)                                                                                                                    |                   | *                      | 09/16/92                | 09/16/92                |                   |                           | 2007                       | 09/27/07             | 01/03/08               | 3                    | 8               |
| 6006                        | Pseudomonas fluorescens              |                         | 006439         | #N/A       | Pseudomonas fluorescens 1629RS                                                                                                                                            |                   | *                      | 09/16/92                | 09/16/92                |                   |                           | 2007                       | Same                 | Same                   | 3                    | 9               |
| 6012                        | Bacillus subtilis                    |                         | 006479         | #N/A       | QST 713 strain of bacillus subtilis                                                                                                                                       |                   |                        | 07/09/92                | 06/20/00                |                   |                           | 2008                       | 03/28/08             | 07/30/08               | 4                    | 10              |
| 6012                        | Bacillus subtilis                    |                         | 006480         | #N/A       | Bacillus subtilis var. amyloliquefaciens Strain FZB24                                                                                                                     |                   |                        | 07/09/92                | 01/20/00                |                   |                           | 2008                       | Same                 | Same                   | 4                    | 11              |
| 6012                        | Bacillus subtilis                    |                         | 129068         | #N/A       | Bacillus subtilis GB03                                                                                                                                                    |                   |                        | 07/09/92                | 07/09/92                |                   |                           | 2008                       | Same                 | Same                   | 4                    | 12              |
| 6012                        | Bacillus subtilis                    |                         | 129082         | #N/A       | Bacillus subtilis MBI 600                                                                                                                                                 |                   |                        | 07/09/92                | 11/25/98                |                   |                           | 2008                       | Same                 | Same                   | 4                    | 13              |
| 4104                        | Nosema locustae                      | 4104                    | 117001         | #N/A       | Nosema locustae                                                                                                                                                           |                   |                        | 09/01/92                | 03/25/82                | Completed         | 09/01/92                  | 2008                       | 12/12/07             | 03/18/08               | 5                    | 14              |
| 6066                        | Streptomyces griseoviridis           |                         | 129069         | #N/A       | Streptomyces griseoviridis strain K61                                                                                                                                     |                   |                        | 04/13/93                | 04/13/93                |                   |                           | 2009                       |                      |                        | 6                    | 15              |
| 6024                        | Metarhizium anisopliae               |                         | 029056         | #N/A       | Metarhizium anisopliae strain F52 spores                                                                                                                                  |                   |                        | 05/07/93                | 06/06/03                |                   |                           | 2009                       |                      |                        | 7                    | 16              |
| 6024                        | Metarhizium anisopliae               |                         | 129056         | 67892-13-1 | Metarhizium anisopliae Strain ESF1                                                                                                                                        |                   |                        | 05/07/93                | 05/07/93                |                   |                           | 2009                       |                      |                        | 7                    | 17              |

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

2 of 48

|      |                           |             |            |                                                                                                                                                   |          |                    |               |     |    |    |
|------|---------------------------|-------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|---------------|-----|----|----|
| 6018 | Ampelomyces quisqualis    | 021007      | #N/A       | Ampelomyces quisqualis isolate M-10                                                                                                               | 06/17/94 | 06/17/94           | 2009          | N/A | 8  | 18 |
| 6019 | Candida oleophila         | 021008      | #N/A       | Candida oleophila isolate I-182                                                                                                                   | 02/15/95 | 02/15/95           | 2009          |     | 9  | 19 |
| 6001 | Encapsulated Bt proteins  | 006409      | #N/A       | Delta endotoxin of Bacillus thuringiensis variety kurstaki encapsulated in killed Pseudomonas fluorescens                                         | 03/23/95 | 03/23/95           | 2010          |     | 10 | 20 |
| 6001 | Encapsulated Bt proteins  | 006457      | #N/A       | A blend of CryIA(c) and CryIC derived*delta endotoxins of Bacillus thuringiensis encapsulated in killed pseudomonas fluorescens (*Patent pending) | 03/23/95 | 11/03/95           | 2010          |     | 10 | 21 |
| 6057 | Beauveria bassiana        | 128815      | #N/A       | Beauveria bassiana strain 447                                                                                                                     | 04/08/95 | 09/27/02           | 2010          |     | 11 | 22 |
| 6057 | Beauveria bassiana        | 128818      | #N/A       | Beauveria bassiana ATCC 74040                                                                                                                     | 04/08/95 | 05/26/95           | 2010          |     | 11 | 23 |
| 6057 | Beauveria bassiana        | 128924      | #N/A       | Beauveria bassiana GHA                                                                                                                            | 04/08/95 | 04/08/95           | 2010          |     | 11 | 24 |
| 6057 | Beauveria bassiana        | 090305      | 63428-82-0 | Beauveria bassiana strain HF23                                                                                                                    | 04/08/95 | 12/27/06           | 2010          |     | 11 | 25 |
| 4101 | Agrobacterium radiobacter | 006474      | #N/A       | Agrobacterium radiobacter strain K1026                                                                                                            | 06/08/95 | 09/28/99           | 2010          |     | 12 | 26 |
| 4101 | Agrobacterium radiobacter | 4101 114201 | #N/A       | Agrobacterium radiobacter (strain K84)                                                                                                            | 06/08/95 | 01/05/79 Completed | 06/08/95 2010 |     | 12 | 27 |
| 6020 | Gliocladium species       | 021009      | #N/A       | Gliocladium catenulatum strain J1446                                                                                                              | 06/13/96 | 07/02/98           | 2010          |     | 13 | 28 |
| 6020 | Gliocladium species       | 129000      | #N/A       | Gliocladium virens G-21                                                                                                                           | 06/13/96 | 06/13/96           | 2010          |     | 13 | 29 |
| 6068 | Lagenidium giganteum      | 129084      | #N/A       | Lagenidium giganteum, mycelium or oospores                                                                                                        | 08/20/96 | 08/20/96           | 2011          |     | 14 | 30 |
| 4106 | NPV (insect viruses)      | 107300      | #N/A       | Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)                                             | 09/01/96 | 07/10/92           | 2011          |     | 15 | 31 |
| 4106 | NPV (insect viruses)      | 151 107301  | #N/A       | Use code no. 107300                                                                                                                               | 09/01/96 | 04/30/99 Completed | 12/01/90 2011 |     | 15 | 32 |
| 4106 | NPV (insect viruses)      | 4106 107302 | #N/A       | Polyhedral inclusion bodies of Douglas fir tussock moth nucleopolyhedrosis virus                                                                  | 09/01/96 | 04/13/98 Completed | 09/01/96 2011 |     | 15 | 33 |
| 4106 | NPV (insect viruses)      | 4106 107303 | #N/A       | Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus                                                                                | 09/01/96 | 04/13/78 Completed | 09/01/96 2011 |     | 15 | 34 |
| 4106 | NPV (insect viruses)      | 108896      | #N/A       | Indian meal moth granulosis virus and larval parts on milled wheat bran carrier                                                                   | 09/01/96 | 12/21/01           | 2011          |     | 15 | 35 |

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

3 of 48

|                           |            |            |                                                                                                        |          |                    |          |      |    |    |
|---------------------------|------------|------------|--------------------------------------------------------------------------------------------------------|----------|--------------------|----------|------|----|----|
| 4106 NPV (insect viruses) | 127885     | #N/A       | Anagrapha falcifera multi-nuclear polyhedrosis virus polyhedral inclusion bodies in aqueous suspension | 09/01/96 | 08/09/02           |          | 2011 | 15 | 36 |
| 4106 NPV (insect viruses) | 129078     | #N/A       | Polyhedral occlusion bodies of the beet armyworm nuclear polyhedrosis virus                            | 09/01/96 | 06/30/92           |          | 2011 | 15 | 37 |
| 4106 NPV (insect viruses) | 129090     | #N/A       | Cydia pomonella granulosis virus                                                                       | 09/01/96 | 06/12/97           |          | 2011 | 15 | 38 |
| 6053 Bacillus cereus      | 119802     | #N/A       | Bacillus cereus strain UW85                                                                            | 07/30/97 | 07/30/97           |          | 2011 | 16 | 39 |
| 247 BT                    | 006400     | 68038-71-1 | Bacillus thuringiensis (Berliner)                                                                      | 03/31/98 | 12/15/81           |          | 2011 | 17 | 40 |
| 247 BT                    | 247 006401 | 68038-71-1 | Bacillus thuringiensis subsp. israelensis                                                              | 03/31/98 | 04/07/82 Completed | 03/31/98 | 2011 | 17 | 41 |
| 247 BT                    | 247 006402 | 68038-71-1 | Bacillus thuringiensis subsp. kurstaki                                                                 | 03/31/98 | 10/13/71 Completed | 03/31/98 | 2011 | 17 | 42 |
| 247 BT                    | 247 006403 | #N/A       | Bacillus thuringiensis subsp. aizawai                                                                  | 03/31/98 | 07/10/91 Completed | 03/31/98 | 2011 | 17 | 43 |
| 247 BT                    | 247 006405 | #N/A       | Bacillus thuringiensis subsp. tenebrionis                                                              | 03/31/98 | 12/12/88 Completed | 03/31/98 | 2011 | 17 | 44 |
| 247 BT                    | 006407     | #N/A       | Bacillus thuringiensis subsp. kurstaki strain BMP123                                                   | 03/31/98 | 08/05/93           |          | 2011 | 17 | 45 |
| 247 BT                    | 006423     | #N/A       | Bacillus thuringiensis subsp. kurstaki strain EG2371                                                   | 03/31/98 | 05/25/95           |          | 2011 | 17 | 46 |
| 247 BT                    | 006424     | #N/A       | Bacillus thuringiensis subsp. kurstaki strain EG2348                                                   | 03/31/98 | 04/25/94           |          | 2011 | 17 | 47 |
| 247 BT                    | 006426     | #N/A       | Bacillus thuringiensis subsp. aizawai strain GC-91                                                     | 03/31/98 | 08/08/92           |          | 2011 | 17 | 48 |
| 247 BT                    | 006447     | #N/A       | Bacillus thuringiensis subsp. kurstaki strain EG7673                                                   | 03/31/98 | 01/18/95           |          | 2011 | 17 | 49 |
| 247 BT                    | 006452     | #N/A       | Lepidopteran active toxin Bacillus thuringiensis var. kurstaki strain M-200 protein toxin              | 03/31/98 | 11/15/96           |          | 2011 | 17 | 50 |
| 247 BT                    | 006453     | #N/A       | Bacillus thuringiensis subspecies kurstaki strain EG7841                                               | 03/31/98 | 09/04/02           |          | 2011 | 17 | 51 |
| 247 BT                    | 006459     | #N/A       | Bacillus thuringiensis subspecies kurstaki, strain EG7826                                              | 03/31/98 | 12/16/96           |          | 2011 | 17 | 52 |
| 247 BT                    | 006476     | #N/A       | Bacillus thuringiensis subspecies israelensis strain EG2215                                            | 03/31/98 | 09/30/98           |          | 2011 | 17 | 53 |

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

4 of 48

|                               |            |             |                                                                                                                                        |          |                    |               |    |    |
|-------------------------------|------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|---------------|----|----|
| 247 BT                        | 006494     | #N/A        | Bacillus thuringiensis subsp. aizawai, strain NB200                                                                                    | 03/31/98 | 06/10/05           | 2011          | 17 | 54 |
| 247 BT                        | 247 006518 | #N/A        | Bt kurstaki strain SA-12                                                                                                               | 03/31/98 | 10/13/71 Completed | 03/31/98 2011 | 17 | 55 |
| 247 BT                        | 247 006519 | #N/A        | Bt kurstaki strain SA-11                                                                                                               | 03/31/98 | 10/13/71 Completed | 03/31/98 2011 | 17 | 56 |
| 247 BT                        | 247 006520 | #N/A        | Bt israelensis strain BMP 144                                                                                                          | 03/31/98 | 04/07/82 Completed | 03/31/98 2011 | 17 | 57 |
| 247 BT                        | 247 006522 | #N/A        | Bt kurstaki strain ABTS-351                                                                                                            | 03/31/98 | 10/13/71 Completed | 03/31/98 2011 | 17 | 58 |
| 247 BT                        | 247 006523 | #N/A        | Bt aizawai strain ABTS-1857                                                                                                            | 03/31/98 | 07/10/91 Completed | 03/31/98 2011 | 17 | 59 |
| 247 BT                        | 247 006524 | #N/A        | Bt tenebrionis strain NB-176                                                                                                           | 03/31/98 | 12/12/88 Completed | 03/31/98 2011 | 17 | 60 |
| 247 BT                        | 247 069162 | #N/A        | Bt israelensis strain AM 65-52                                                                                                         | 03/31/98 | 04/07/82 Completed | 03/31/98 2011 | 17 | 61 |
| 247 BT                        | 247 069210 | #N/A        | Bt israelensis strain SA3A                                                                                                             | 03/31/98 | 04/07/82 Completed | 03/31/98 2011 | 17 | 62 |
| 6010 Harpin proteins          | 006477     | #N/A        | Harpin protein                                                                                                                         | 04/19/00 | 04/19/00           | 2012          | 18 | 63 |
| 6047 Paecilomyces species     | 028826     | #N/A        | Paecilomyces lilacinus strain 251 (A filamentous fungus)                                                                               | 04/22/98 | 03/30/05           | 2012          | 19 | 64 |
| 6047 Paecilomyces species     | 115002     | #N/A        | Paecilomyces fumosoroseus Apopka Strain 97                                                                                             | 04/22/98 | 04/22/98           | 2012          | 19 | 65 |
| 6505 Potato replicase         | 006469     | #N/A        | Potato leafroll virus (PLRV) replicase protein as produced in potato plants                                                            | 04/14/98 | 04/14/98           | 2012          | 20 | 66 |
| 6009 Pseudomonas aureofaciens | 006473     | #N/A        | Pseudomonas aureofaciens strain Tx-1                                                                                                   | 02/11/99 | 02/11/99           | 2012          | 21 | 67 |
| 6010 Harpin proteins          | 006506     | #N/A        | Harpin alpha beta protein                                                                                                              | 04/19/00 | 02/11/05           |               | 21 | 68 |
| 6051 Myrothecium species      | 119204     | #N/A        | Dried fermentation solids & solubles of myrothecium verrucaria                                                                         | 04/29/00 | 04/29/00           |               | 22 | 69 |
| 6052 Bacillus sphaericus      | 119801     | 143447-72-7 | Bacillus sphaericus                                                                                                                    | 04/29/00 | 04/29/00           |               | 23 | 70 |
| 6022 Coniothyrium species     | 028836     | #N/A        | Coniothyrium minitans strain CON/M/91-08 (A filamentous fungus)                                                                        | 03/16/01 | 03/16/01           |               | 24 | 71 |
| 6015 Bacillus pumilus         | 006485     | #N/A        | Bacillus pumilus QST 2808                                                                                                              | 05/15/01 | 10/14/04           |               | 25 | 72 |
| 6015 Bacillus pumilus         | 006493     | #N/A        | Bacillus pumilus GB34                                                                                                                  | 05/15/01 | 05/15/01           |               | 25 | 73 |
| 6011 Pseudomonas chlororaphis | 006478     | #N/A        | Pseudomonas chlororaphis strain 63-28                                                                                                  | 09/28/01 | 09/28/01           |               | 26 | 74 |
| 6501 Bt corn lepidopteran     | 006430     | #N/A        | Bacillus thuringiensis subsp. kurstaki strain HD1 delta-endotoxin as produced in corn by a cry1A(b) gene and its controlling sequences | 10/15/01 | 12/20/96           |               | 27 | 75 |

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

5 of 48

|                             |        |      |                                                                                                                                                                                                                                                   |          |          |    |    |
|-----------------------------|--------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----|----|
| 6501 Bt corn lepidopteran   | 006444 | #N/A | Bacillus thuringiensis CryIA(b) delta-endotoxin and the genetic material necessary for its production (plasmid vector pZ01502) in corn, when used as a plant pesticide in all raw agricultural commodities of field corn, sweet corn and popcorn. | 10/15/01 | 08/11/96 | 27 | 76 |
| 6501 Bt corn lepidopteran   | 006481 | #N/A | Bacillus thuringiensis Cry 1F protein and the genetic material necessary for its production (plasmid insert PHI 8999)in corn                                                                                                                      | 10/15/01 | 05/18/01 | 27 | 77 |
| 6501 Bt corn lepidopteran   | 006491 | #N/A | Bacillus thuringiensis moCry 1F insecticidal protein and the genetic material necessary for its production in maize                                                                                                                               | 10/15/01 | 05/27/05 | 27 | 78 |
| 6503 Bt potato coleopteran  | 006432 | #N/A | Bacillus thuringiensis subspecies tenebrionis delta endotoxin as produced in potato by Cry IIIA gene and its controlling sequences and found in the following constructs:PV-STBT02, PV-STBT04, and PV-STMT01, IR-22,                              | 10/15/01 | 05/02/95 | 28 | 79 |
| 6504 Bt cotton lepidopteran | 006445 | #N/A | Bacillus thuringiensis var. kurstaki delta endotoxin protein as produced by the Cry1A(c)                                                                                                                                                          | 10/15/01 | 03/21/95 | 29 | 80 |
| 6504 Bt cotton lepidopteran | 006487 | #N/A | Bacillus thuringiensis Cry2Ab protein and the genetic material necessary for its production (vector GHBK11) in cotton                                                                                                                             | 10/15/01 | 06/14/02 | 29 | 81 |
| 6504 Bt cotton lepidopteran | 006512 | #N/A | Cry1F Bt Cotton Event 281                                                                                                                                                                                                                         | 10/15/01 | 09/30/04 | 29 | 82 |
| 6504 Bt cotton lepidopteran | 071326 | #N/A | Cry1Ac Bt cotton Event 3006                                                                                                                                                                                                                       | 10/15/01 | 09/30/04 | 29 | 83 |
| 6013 Puccinia thlaspeos     | 006489 | #N/A | Puccinia thlaspeos 'woad strain' on rust-infected pieces of dyer's woad                                                                                                                                                                           | 06/26/02 | 06/26/02 | 30 | 84 |
| 6049 Pseudozyma flocculosa  | 119196 | #N/A | Pseudozyma flocculosa                                                                                                                                                                                                                             | 09/20/02 | 09/20/02 | 31 | 85 |
| 6014 Bacillus licheniformis | 006492 | #N/A | Bacillus licheniformis SB3086                                                                                                                                                                                                                     | 02/04/03 | 02/04/03 | 32 | 86 |

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

6 of 48

|                                                             |             |      |                                                                                                                       |          |          |           |          |    |     |
|-------------------------------------------------------------|-------------|------|-----------------------------------------------------------------------------------------------------------------------|----------|----------|-----------|----------|----|-----|
| 6502 Bt corn coleopteran                                    | 006484      | #N/A | Bacillus thuringiensis Cry3Bb protein and the genetic material necessary for its production (Vector ZMIR 13L) in corn | 02/23/03 | 02/23/03 |           |          | 33 | 87  |
| 6502 Bt corn coleopteran                                    | 006490      | #N/A | Bacillus thuringiensis Cry34Ab1 and Cry35Ab1 proteins and the genetic material necessary for their production in corn | 02/23/03 | 08/31/05 |           |          | 33 | 88  |
| 6502 Bt corn coleopteran                                    | 006498      | #N/A | Bacillus thuringiensis Cry3Bb1 protein and the genetic material necessary (vector ZMIR39) for its production in corn  | 02/23/03 | 07/15/03 |           |          | 33 | 89  |
| 6502 Bt corn coleopteran                                    | 006498      | #N/A | Bacillus thuringiensis Cry3Bb1 protein and the genetic material (vector VZMIR39) necessary for its production in corn | 02/23/03 | 12/13/05 |           |          | 33 | 90  |
| 6502 Bt corn coleopteran                                    | 006509      | #N/A | Bacillus thuringiensisCry3A                                                                                           | 02/23/03 | 10/03/07 |           |          | 33 | 91  |
| 6008 Aspergillus flavus                                     | 006456      | #N/A | Aspergillus flavus 36 colonized wheat seed                                                                            | 07/23/03 | 07/23/03 |           |          | 34 | 92  |
| 6008 Aspergillus flavus                                     | 006500      | #N/A | Aspergillus flavus NRRL 21882                                                                                         | 07/23/03 | 05/28/04 |           |          | 34 | 93  |
| 6087 Trypsin modulating oostatic factor                     | 105403      | #N/A | Trypsin Modulating Oostatic Factor (TMOF)                                                                             | 05/24/04 | 05/24/04 |           |          | 35 | 94  |
| 6088 Streptomyces lydicus WYEC 108                          | 006327      | #N/A | Streptomyces lydicus WYEC 108                                                                                         | 05/24/04 | 05/24/04 |           |          | 36 | 95  |
| 6091 Chondrostereum purpureum                               | 081308      | #N/A | Chondrostereum purpureum isolate PFC 2139, ATCC 60854                                                                 | 09/23/04 | 09/23/04 |           |          | 37 | 96  |
| 6091 Chondrostereum purpureum                               | 081309      | #N/A | Chondrostereum purpureum strain HQ1, IDAC accession #090502-01,                                                       | 09/23/04 | 03/30/05 |           |          | 37 | 97  |
| 4102 Bacillus popilliae                                     | 4102 054501 | #N/A | Bacillus popilliae and B. lentimorbus                                                                                 | 09/24/04 | 07/01/87 | Completed | 09/24/04 | 38 | 98  |
| 4102 Bacillus popilliae                                     | 054502      | #N/A | Spores of bacillus popilliae                                                                                          | 09/24/04 | 05/24/95 | Completed | 09/24/04 | 38 | 99  |
| 6300 Alternaria destruens                                   | 028301      | #N/A | Alternaria destruens                                                                                                  | 05/04/05 | 05/04/05 |           |          | 39 | 100 |
| 6303 Muscodor albus QST 20799                               | 006503      | #N/A | Muscodor albus strain QST 20799                                                                                       | 09/22/05 | 09/22/05 |           |          | 40 | 101 |
| 6508 Verticillium dahliae Isolate WCS 850                   | 081305      | #N/A | Verticillium dahliae Isolate WCS 850                                                                                  | 10/19/05 | 10/19/05 |           |          | 41 | 102 |
| 6509 Xanthomonas campestris pv. vesicatoria (bacteriophage) | 006449      | #N/A | Xanthomonas campestris pv. vesicatoria (bacteriophage)                                                                | 12/09/05 | 12/09/05 |           |          | 42 | 103 |

| Cases | 50 | Actives | 112 | 6 | 5 |
|-------|----|---------|-----|---|---|
|-------|----|---------|-----|---|---|

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

EPA/OPP Microbial Pesticide Cases:  
Registration Review Schedule

12/17/2008

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