

**FORMAT FOR PROVIDING SILKWORM GERMPLOASM INFORMATION**

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| <b>Sl. No.</b> | <b>Accn no.</b> | <b>Name of Silkworm race/breed</b> | <b>Parentage</b>       | <b>Origin: Source of collection/ evolved &amp; year</b> | <b>Bivoltine /multivoltine</b> | <b>National Accession no.</b> | <b>Unique characters of the race</b> | <b>Relevant trait</b> |
|----------------|-----------------|------------------------------------|------------------------|---|--------------------------------|-------------------------------|--------------------------------------|-----------------------|
| 1              |                 | CSR2                               | SHUNREI x SHOGETSU     | CSRTI-Mysuru  | Bivoltine                      |                               | OVAL                                 | Productive            |
| 2              |                 | CSR4                               | (BN18 x BCS25) x NB4D2 | CSRTI-Mysuru  | Bivoltine                      |                               | DUMBBELL (P)                         |                       |
| 3              |                 | CSR4S                              | CSR4                   | CSRTI-Mysuru  | Bivoltine                      |                               | DUMBBELL (P)                         |                       |
| 4              |                 | CSR5                               | SHUNREI x SHOGETSU     | CSRTI-Mysuru  | Bivoltine                      |                               | DUMBBELL (P)                         |                       |
| 5              |                 | CSR6                               | SHUNREI x SHOGETSU     | CSRTI-Mysuru  | Bivoltine                      |                               | DUMBBELL (M)                         |                       |
| 6              |                 | CSR16                              | (BN18 x BCS25) x NB4D2 | CSRTI-Mysuru  | Bivoltine                      |                               | DUMBBELL (M)                         | Productive            |
| 7              |                 | CSR17                              | (N137 x C146) x A24    | CSRTI-Mysuru  | Bivoltine                      |                               | OVAL                                 | Productive            |
| 8              |                 | CSR26                              | C135 x N134            | CSRTI-Mysuru  | Bivoltine                      |                               | DUMBBELL (M)                         | Productive            |
| 9              |                 | CSR27                              | THAIHEI X CHOAN        | CSRTI-Mysuru  | Bivoltine                      |                               | OVAL                                 | Productive            |
| 10             |                 | CSR50                              | CSR202 x CSR46         | CSRTI-Mysuru  | Bivoltine                      |                               | OVAL                                 | Productive            |

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|----|--|-------|-------------------------|--------------|-----------|--|-----------------|--|
| 11 |  | CSR51 | 9HT x CSR16             | CSRTI-Mysuru | Bivoltine |  | DUMBBELL<br>(M) | Productive   |
| 12 |  | CSR52 | Daizo x 10 HT           | CSRTI-Mysuru | Bivoltine |  | OVAL            | Productive   |
| 13 |  | CSR53 | CSR203x CSR47           | CSRTI-Mysuru | Bivoltine |  | DUMBBELL<br>(M) | Productive   |
| 14 |  | S8    | CSR27xCSR202            | CSRTI-Mysuru | Bivoltine |  | OVAL            | Productive   |
| 15 |  | GEN1  | CSR2 X Pure<br>Mysore   | CSRTI-Mysuru | Bivoltine |  | OVAL            | Amylase based<br>selection<br>(Biochemical marker) |
| 16 |  | GEN2  | Nistari and CSR5        | CSRTI-Mysuru | Bivoltine |  | DUMBBELL (P)    | Amylase based<br>selection<br>(Biochemical marker) |
| 17 |  | GEN3  | Pure Mysore and<br>CSR2 | CSRTI-Mysuru | Bivoltine |  | OVAL            | Amylase based<br>selection<br>(Biochemical marker) |
| 18 |  | 2C    | CSR2x <i>C. nichi</i>   | CSRTI-Mysuru | Bivoltine |  | OVAL            | Amylase based<br>selection<br>(Biochemical marker) |
| 19 |  | 4S    | CSR4 x Sarupat          | CSRTI-Mysuru | Bivoltine |  | DUMBBELL (P)    | Amylase based<br>selection<br>(Biochemical marker) |
| 20 |  | 4D    | CSR4xDaizo              | CSRTI-Mysuru | Bivoltine |  | DUMBBELL (P)    | Amylase based<br>selection<br>(Biochemical marker) |
| 21 |  | 6P    | CSR4xPM                 | CSRTI-Mysuru | Bivoltine |  | DUMBBELL (P)    | Amylase based<br>selection<br>(Biochemical marker) |

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| 22 |  | 6C     | CSR6x <i>C. nichii</i>             | CSRTI-Mysuru | Bivoltine |  | DUMBELL (P)        | Amylase based selection<br>(Biochemical marker) |
| 23 |  | S8N    | MASN6                              | CSRTI-Mysuru | Bivoltine |  | OVAL, NPV tolerant | NPV tolerant                                    |
| 24 |  | CSR52N | CSR52xMASN6                        | CSRTI-Mysuru | Bivoltine |  | OVAL               | NPV tolerant                                    |
| 25 |  | CSR16N | CSR16x5N                           | CSRTI-Mysuru | Bivoltine |  | DUMBELL (M)        | NPV tolerant                                    |
| 26 |  | CSR26N | CSR26x                             | CSRTI-Mysuru | Bivoltine |  | DUMBELL (M)        | NPV tolerant                                    |
| 27 |  | N1     | SK3xA110                           | CSRTI-Mysuru | Bivoltine |  | OVAL               | Thermotolerant (SSR Marker)                     |
| 28 |  | N2     | CSR27XA110                         | CSRTI-Mysuru | Bivoltine |  | OVAL               | Thermotolerant (SSR Marker)                     |
| 29 |  | N5     | CSR6XSK4C                          | CSRTI-Mysuru | Bivoltine |  | DUMBELL (M)        | Thermotolerant (SSR Marker)                     |
| 30 |  | N6     | CSR26XSK4C                         | CSRTI-Mysuru | Bivoltine |  | DUMBELL (M)        | Thermotolerant (SSR Marker)                     |
| 31 |  | JPN7   | (BN18 x BN19)<br>x (BCS18 x BCS19) | CSRTI-Mysuru | Bivoltine |  | OVAL               | THIN DENIER,<br>Longer filament                 |
| 32 |  | JPN8   | (BN18 x BN19)<br>x (BCS18 x BCS19) | CSRTI-Mysuru | Bivoltine |  | OVAL               | THIN DENIER,<br>Longer filament                 |
| 33 |  | BMV1   | ShV                                |              | Bivoltine |  | OVAL               | Productive                                      |
| 34 |  | BM2E   | KOM2                               |              | Bivoltine |  | Elongated OVAL     | Productive                                      |

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| 35 |  | BMO1  | KOM2, CSR27          |              | Bivoltine |  | OVAL     | Productive                |
| 36 |  | BMO2  | ShV, CSR50           |              | Bivoltine |  | OVAL     | Productive                |
| 37 |  | BMO10 | KOM2xCSR52           |              | Bivoltine |  | OVAL     | Productive                |
| 38 |  | BMO11 | ShV, SSBS5           |              | Bivoltine |  | OVAL     | Productive                |
| 39 |  | BMD2  | JH4, CSR6,<br>CSR53  |              | Bivoltine |  | DUMBBELL | Productive                |
| 40 |  | BMD3  | JH4, CSR51,<br>SSBS6 |              | Bivoltine |  | DUMBBELL | Productive                |
| 41 |  | BMD5  | CSR16xJH4            |              | Bivoltine |  | DUMBBELL | Productive                |
| 42 |  | BMFD  | EC1, Exotic          |              | Bivoltine |  | DUMBBELL | Productive                |
| 43 |  | MASN4 | CSR2xSarupat         | CSRTI-Mysuru | Bivoltine |  | OVAL     | NPV tolerant (SSR marker) |
| 44 |  | MASN6 | CSR2xSarupat         |              | Bivoltine |  | OVAL     | NPV tolerant (SSR marker) |
| 45 |  | MASN7 | CSR2xSarupat         |              | Bivoltine |  | OVAL     | NPV tolerant (SSR marker) |
| 46 |  | CNR3  | SPJ1XSH2             |              | Bivoltine |  | DUMBBELL |                           |
| 47 |  | CNR4  | SH2X14M              |              | Bivoltine |  | OVAL     |                           |
| 48 |  | CNR5  | SH2XN4               |              | Bivoltine |  | OVAL     |                           |
| 49 |  | SLD1  | CJ3PXA120            |              | Bivoltine |  | OVAL     | Shorter larval duration   |

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| 50 |  | SLD8   | B120XJA1      |  | Bivoltine |  | DUMBBELL | Shorter larval duration |
| 51 |  | SLD9   | JA1XV120      |  | Bivoltine |  | DUMBBELL | Shorter larval duration |
| 52 |  | SSBS2  | CSR50XSLD1    |  | Bivoltine |  | OVAL     |                         |
| 53 |  | SSBS3  | CSR202, CSR46 |  | Bivoltine |  | OVAL     | Productive              |
| 54 |  | SSBS5  | GEN3, D7      |  | Bivoltine |  | OVAL     | Productive              |
| 55 |  | SSBS6  | CSR47, D15    |  | Bivoltine |  | DUMBBELL | Productive              |
| 56 |  | SSBS7  | CSR6, D13     |  | Bivoltine |  | DUMBBELL | Productive              |
| 57 |  | SSBS9  | D7, CSR50     |  | Bivoltine |  | OVAL     |                         |
| 58 |  | SSBS10 | D7, CSR52     |  | Bivoltine |  | OVAL     |                         |
| 59 |  | SSBS11 | CSR17XCSR50   |  | Bivoltine |  | OVAL     |                         |
| 60 |  | SSBS12 | CSR17XCSR46   |  | Bivoltine |  | OVAL     |                         |
| 61 |  | SSBS16 | D15XD20       |  | Bivoltine |  | DUMBBELL |                         |
| 62 |  | SSBS17 | D15XCSR47     |  | Bivoltine |  | DUMBBELL |                         |
| 63 |  | D1     |               |  | Bivoltine |  | OVAL     |                         |
| 64 |  | D2     |               |  | Bivoltine |  | OVAL     |                         |
| 65 |  | D11    |               |  | Bivoltine |  | DUMBBELL |                         |

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| 66 |  | D15   |                             |  | Bivoltine    |  | DUMBBELL |   |
| 67 |  | D17   |                             |  | Bivoltine    |  | DUMBBELL |   |
| 68 |  | BL24  | HOSAMYSORE,<br>NISTARI, NB7 |  | Multivoltine |  |          |   |
| 69 |  | BL67  | BL24, BL27                  |  | Multivoltine |  |          |   |
| 70 |  | BL68  | BL23, BL27                  |  | Multivoltine |  |          |   |
| 71 |  | BL69  | PM, CSR2                    |  | Multivoltine |  |          |   |
| 72 |  | 2000H | 96HXCSR18                   |  | Multivoltine |  |          |   |
| 73 |  | NP1   | BL69XMAR                    |  | Multivoltine |  |          |   |
| 74 |  | HB4   | BL67XNDV6                   |  | Multivoltine |  |          | Superior silk quality                               |
| 75 |  | HB6   | BL67, L14                   |  | Multivoltine |  |          |   |
| 76 |  | ND7   | BL67, BL24,<br>BL27         |  | Multivoltine |  |          | Gradable silk                                       |
| 77 |  | NDV6  | 2000H, C. NICHI             |  | Multivoltine |  |          | Tolerant to BmDNV1                                  |
| 78 |  | ND5   | BL67, MAR                   |  | Multivoltine |  |          |   |
| 79 |  | AGL35 | BL68, DNP5                  |  | Multivoltine |  |          | Developed through<br>application of<br>androgenesis |
| 80 |  | L1    | ND7, DV6, NP1,<br>2000H     |  | Multivoltine |  |          |   |
| 81 |  | L3    |                             |  | Multivoltine |  |          |   |
| 82 |  | L14   | ND7, DV6, NP1,              |  | Multivoltine |  |          | Superior silk quality                               |

|                                     |  |         |                        |              |              |                    |           |   |
|-------------------------------------|--|---------|------------------------|--------------|--------------|--------------------|-----------|---|
| 83                                  |  | L15     | 2000H<br>PM            |              | Multivoltine |                    |           |   |
| 84                                  |  | MV1     |                        |              | Multivoltine |                    |           | Superior silk quality<br>with gradable silk<br>Better filament length |
| 85                                  |  | PM4     |                        |              | Multivoltine |                    | SPINDLE   |   |
| 86                                  |  | B1(G)   | NISTARI, PV1           |              | Multivoltine |                    |           |   |
| 87                                  |  | APDR15  |                        |              | Multivoltine |                    |           |   |
| 88                                  |  | FVB1    |                        |              | Multivoltine |                    |           |   |
| 89                                  |  | MH1     |                        |              | Multivoltine |                    |           |   |
| 90                                  |  | MO6     | PMXPV1                 |              | Multivoltine |                    |           |   |
| 91                                  |  | ND2     |                        |              | Multivoltine |                    |           |   |
| 92                                  |  | ND10    |                        |              | Multivoltine |                    |           |   |
| 93                                  |  | NISTARI |                        |              | Multivoltine |                    |           |   |
| 94                                  |  | NP1     | BL69XMAR               |              | Multivoltine |                    |           |   |
| 95                                  |  | NP4     | BL64X MAR              |              | Multivoltine |                    |           |   |
| 96                                  |  | PV1     | SWARNANDRA             |              | Multivoltine |                    |           |   |
| 97                                  |  | RD1     | RONG DAIZO             |              | Multivoltine |                    |           |   |
| 98                                  |  | M. CON1 | JPN x CB5              |              | Multivoltine |                    |           |   |
| <b>Sex limited bivoltine breeds</b> |  |         |                        |              |              |                    |           |   |
| 99                                  |  | CSR3SL  | (BN18 x BC25)<br>x CC1 | CSRTI-Mysuru | Bivoltine    | Larval<br>markings | OVAL (SL) |   |
| 100                                 |  | CSR12SL | (BN18 x BC25)<br>x KA  | CSRTI-Mysuru | Bivoltine    | Larval<br>markings | OVAL (SL) |   |
| 101                                 |  | CSR18SL | B201 x BCS12           | CSRTI-Mysuru | Bivoltine    | Larval             | OVAL (SL) | Sex limited larval  |

|     |  |          |                            |              |           | markings                    |               | marking                    |
|-----|--|----------|----------------------------|--------------|-----------|-----------------------------|---------------|----------------------------|
| 102 |  | CSR19SL  | B201 x BCS12               | CSRTI-Mysuru | Bivoltine | Larval markings             | DUMBBELL (SL) | Sex limited larval marking |
| 103 |  | CSR2 SL  | CC1(SL)XCSR2               | CSRTI-Mysuru | Bivoltine | Cocoon colour - sex limited |               |                            |
| 104 |  | CSR4SL   | JAPANESE HYBRID SL X CSR4  | CSRTI-Mysuru | Bivoltine | Cocoon colour - sex limited |               |                            |
| 105 |  | CSR8SL   | JAPANESE HYBRID SL X NB4D2 | CSRTI-Mysuru | Bivoltine | Cocoon colour - sex limited |               |                            |
| 106 |  | CSR27SL  | CC1 SL X CSR27             | CSRTI-Mysuru | Bivoltine | Cocoon colour - sex limited |               |                            |
| 107 |  | CSR202SL | CC1SLX CSR202              | CSRTI-Mysuru | Bivoltine | Cocoon colour - sex limited |               |                            |