

| Performance                                      | Test Method   | Acceptance Criteria                    | Results                        |                                |  |
|--|---|--|--------------------------------|--------------------------------|--|
| Characteristics                                  |   |  | Composition<br>A               | Composition<br>B               |  |
| Fluid Resistance                                 | ASTM F1862-07 – Standard Test Method for Resistance   | Low Barrier: 80                        | 80mmHg                         | 80mmHg<br>Low Barrier          |  |
| Performance (mmHg)                               | of Surgical Mask to Penetration by Synthetic Blood  | Moderate Barrier: 120                  | Low Barrier                    |                                |  |
|  | See Attachment 3.1  | High Barrier: 160                      |                                |                                |  |
| Particulate Filtration<br>Efficiency Performance | ASTM F2299 – Standard Test Method for Determining<br>the Initial Efficiency of Materials Used in Medical Face | Low Barrier:<br>Not Required           | 98.8%<br>High Barrier          | 98.6%<br>High Barrier          |  |
| (%)  | Masks to Penetration by Particulates Using Latex  | Moderate Barrier: >=98                 |                                |                                |  |
|  | Spheres<br>See Attachment 3.2   | High Barrier: >=98                     |                                |                                |  |
| <b>Bacterial Filtration</b>                      | ASTM F2101 Standard Test Method for Evaluating the<br>Bacterial Filtration Efficiency (BFE) of Surgical masks | Low Barrier: >=95                      | 99.2%                          | 99.1%<br>High Barrier          |  |
| Efficiency Performance<br>(%)                    |   | Moderate Barrier: >=98                 | High Barrier                   |                                |  |
|  | using a Biological Aerosol of Staphylococcus Aureus<br>See Attachment 3.3                                     | High Barrier: >=98                     |                                |                                |  |
| Differential Pressure                            | Differential Pressure (Delta-P) Test – MIL-M-36945C   | Low Barrier: <4.0                      | 2.9                            | 2.9                            |  |
| (Delta-P)(mm H <sub>2</sub> O/cm <sup>2</sup> )  | 4.4.1.1.1 Method 1 Military Specifications: Surgical  | Moderate Barrier: <5.0 High Barrier    |                                | High Barrier                   |  |
|  | Mask, disposable (June 12, 1975)<br>See Attachment 3.3  | High Barrier: <5.0                     |                                |                                |  |
| Flammability class<br>Class I                    | Flammability Test Method: Standard for Flammability of<br>Clothing Textiles<br>See Attachment 3.4             | Class I:<br>Flame Spread ≥ 3.5 seconds | 7.1<br>Class I<br>High Barrier | 8.5<br>Class I<br>High Barrier |  |

Table 6: Performance characteristics, test methods and acceptance criteria and/or results of bench testing procedures

|   |  |  |                                |          |                                | NELSON<br>LABORATORIES                   |  |                  |                                |  |
|---|--|--|--------------------------------|----------|--------------------------------|--|--|------------------|--------------------------------|--|
| FINAL REPORT<br>SYNTHETIC BLOOD PENETRATION RESISTANCE  |  | Mochigase Co., Ltd.<br>Lab Number 507296   |                                | Syntheti | c Blood Penetration Resistance | Mochigase Co., Ltd.<br>Lab Number 507296 |  | Syntheti         | c Blood Penetration Resistance |  |
| PROCEDURE NO. STP0012 REV 03<br>PROTOCOL DETAIL SHEET NO. 200903491 REV 01<br>LABORATORY NO. 507296 |  | TABLE 1. Synthetic Blood Penetration Resistance<br>Sample Identification: 0475 / MPEA04<br>Test Pressure: 80 mm Hg |                                |          |                                |  | TABLE 2. Synthetic Blood Penetration Resistance<br>Sample Identification: 0475 / PS0020EL70<br>Test Pressure: 80 mm Hg |                  |                                |  |
|   |  | SAMPLE<br>NUMBER   | SYNTHETIC BLOOD<br>PENETRATION | SAMPLE   | SYNTHETIC BLOOD<br>PENETRATION | SAMPLE<br>NUMBER                         | SYNTHETIC BLOOD<br>PENETRATION   | SAMPLE<br>NUMBER | SYNTHETIC BLOOD<br>PENETRATION |  |
|   |  | NOMDER   |                                |          |                                | 1  | None Seen  | 17               | None Seen                      |  |
|   |  | 1  | None Seen                      | 17       | None Seen<br>None Seen         | 2  | None Seen  | 18               | None Seen                      |  |
|   |  | 2  | None Seen                      | 18       |                                | 3  | None Seen  | 19               | None Seen                      |  |
| PREPARED FOR  |  | 3  | None Seen                      | 19       | None Seen                      | 4  | None Seen  | 20               | None Seen                      |  |
| TOSH  | Lab Number: 507296   | 4  | None Seen                      | 20       | None Seen                      | 5  | None Seen  | 21               | None Seen                      |  |
|   | 200903491  | 5  | None Seen                      | 21       | None Seen                      | 6  | None Seen  | 22               | None Seen                      |  |
| T( NELSON PDS Approval  |  | 6  | None Seen                      | 22       | None Seen                      | 7  | None Seen  | 23               | None Seen                      |  |
| TOT CONTACT: Teshina Toulina<br>Contact: Teshina Toulina<br>Contact: Lucinase Co. Lu.               | ABORATORY / CONTRACTOR Noticon Laboratories, Inc. P.0.8ex (75/7 St.1148C OTV. III: M1172652  | 7  | None Seen                      | 23       | None Seen                      | 8  | None Seen  | 24               | None Seen                      |  |
| EXA :: tsuetmining Doct Samet Pa jp<br>P4-5 0 011-81-858-872711<br>F4X: 011-81-888-873028           | Netton Laboratoriles, Inc.<br>Part Laboratoriles, Inc.<br>Sect Laboratoriles, Inc.<br>Sector Laboratoriles, Inc.<br>Sector Laboratoriles, Inc.<br>Int. Biol Control Inc.<br>Inc.<br>Int. Int. Int. Inc.<br>Int. Int. Int. Int. Int. Int. Int. Int.   | 8  | None Seen                      | 24       | None Seen                      | 9  | None Seen  | 25               | None Seen                      |  |
| PARENTAL DOCUMENT System Bod Party<br>For Structure   | PECIFICATIONS  | 9  | None Seen                      | 25       | None Seen                      | 10                                       | None Seen  | 26               | None Seen                      |  |
| ESC INITIATION DATE: 10 25 Nov-2000<br>Zalication<br>No changes to the Standard Testing Protocol.   | EXPIRATION DATE: 25-Nov-2011   | 10   | None Seen                      | 26       | None Seen                      | 11                                       | None Seen  | 27               | None Seen                      |  |
| Histopot Histopot Naka Post   |  | 11   | None Seen                      | 27       | None Seen                      | 12                                       | None Seen  | 28               | None Seen                      |  |
| Test according to Standard Test Protocol.   |  | 12   | None Seen                      | 28       | None Seen                      | 13                                       | None Seen  | 29               | None Seen                      |  |
|   |  | 13   | None Seen                      | 29       | None Seen                      | 14                                       | None Seen  | 30               | None Seen                      |  |
| su  |  | 14   | None Seen                      | 30       | None Seen                      | 15                                       | None Seen  | 31               | None Seen                      |  |
| 22  |  | 15   | None Seen                      | 31       | None Seen                      | 16                                       | None Seen  | 32               | None Seen                      |  |
| NELSON L<br>6280 \$<br>SALT LAKI Oxeena descent   | rozcol spocificators 💿 He additionel pages needed  | 16   | None Seen                      | 32       | None Seen                      |  |  |                  |                                |  |
| Breach Marchall<br>Uncertainty J. J. J. Law J.                  | All Control of All Control Con |  |                                |          |                                |  |  |                  |                                |  |

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|   | Lab Number: 501230  |  |                                   |                              |                                 |  |  |
|---|---|--|-----------------------------------|------------------------------|---------------------------------|--|--|
| REV 01  | PDS Approval Form         NERCHAR           PREFARED FOR SPONSOR         LABORATORY / CONTRACTOR           CONTACT.         Testimistic           CONTACT.         Testimistic           CONTACT.         Testimistic           CONTACT.         Testimistic           BAAL.         Bandulation           BAAL.         Bandulation           PRESCRIPTION         Description           BAAL.         Bandulation           PROBLET         Description           PROBLET         Description           PRODUCT         Description           PROTOCOL         PROTOCOL           PROTOCOL         PROTOCOL           PROTOCOL         PROTOCOL           PROTOCOL         PROTOCOL           PROTOCOL         PROTOCOL           PROTOCOL         PR   | Mochigase Co., Ltd.<br>Lab Number 501236 | TABLE 1<br>Sample Identification: | Results PFE (                | tex Particle Challenge          |  |  |
|   | Notation publications<br>Teel according to Burndard Teel Protocol.  | SAMPLE<br>NUMBER                         | AVERAGE SAMPLE<br>COUNTS          | AVERAGE CONTROL<br>COUNTS    | FILTRATION<br>EFFICIENCY<br>(%) |  |  |
|   |   | 1  | 148                               | 10431                        | 98.6                            |  |  |
|   |   | 2  | 143                               | 10541                        | 98.6                            |  |  |
|   |   | 3  | 117                               | 10583                        | 98.9                            |  |  |
|   |   | 4  | 112                               | 11648                        | 99.04                           |  |  |
|   | Outstitund pages atteined for proving exelicities   | 5  | 174                               | 12760                        | 98.6                            |  |  |
|   | BROWER APPROVAL<br>TERMINAR J. JOSUNA CA<br>DATE Dec. 1. 240 DATE (1) DIC 2001  |  |                                   | TESTED: 91.5 cm <sup>2</sup> |                                 |  |  |
| morning Teelshing Terching morning Advance Soundall |   | PARTICLE SIZE: 0.1 µm (0.097 ± 0.003 µm) |                                   |                              |                                 |  |  |
|   | NON CHARGE USE CALL.Y   |  |                                   | N EFEICIENCY 08 88           |                                 |  |  |
|   |   | AVERAGE FILTRATION EFFICIENCY: 98.8%     |                                   |                              |                                 |  |  |
|   | terming their classical, is in all provided in the data of the second of the basis of the second of |  | STANDARD DE                       | EVIATION: 0.20               |                                 |  |  |
|   |   |  |                                   |                              |                                 |  |  |
|   |   | Comply with requirer                     | ments defined in                  |                              |                                 |  |  |
|   |   |  |                                   |                              |                                 |  |  |
|   |   | U.S. ASTM F 2299 S                       | standard: 98%                     |                              |                                 |  |  |
|   |   | Chinese Standard Te                      | echnical Requirem                 | nents for Protective         | e Face                          |  |  |
|   |   |  |                                   |                              |                                 |  |  |
|   |   | Mask for Medical Us                      | e YY 0469:30%                     |                              |                                 |  |  |

**NELON** LABORATORIES

FINAL REPORT

LATEX PARTICLE CHALLENGE

PROCEDURE NO. STP0005 REV 03 PROTOCOL DETAIL SHEET NO. 200903447 REV 01

LABORATORY NO. 501236

## PREPARED FOR:

TOSHIHISA TSUSHIMA MOCHIGASE CO., LTD. 7-2 MOCHIGASE, MOCHIGASE-CHO TOTTORI-CITY TOTTORI 689-1201 JAPAN

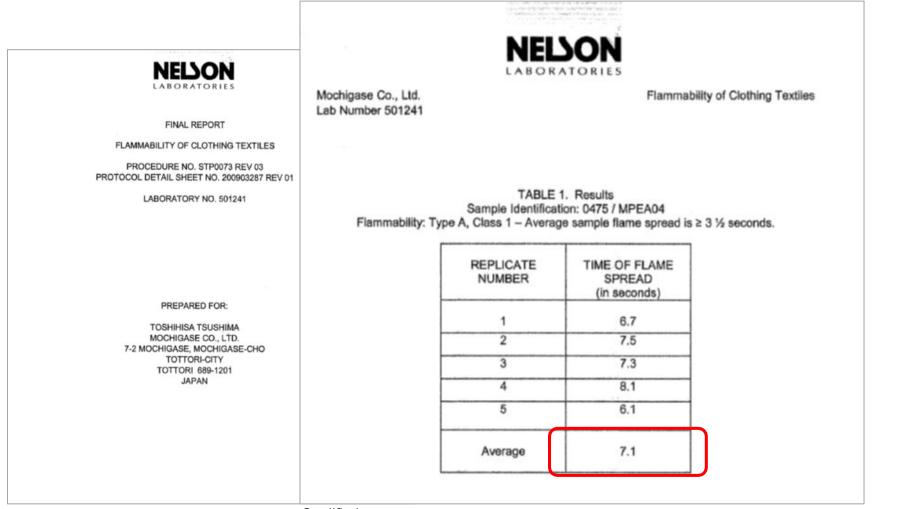
SUBMITTED BY:

NELSON LABORATORIES, INC. 6280 S. REDWOOD RD. SALT LAKE CITY UT 84123-6600 801-290-7500

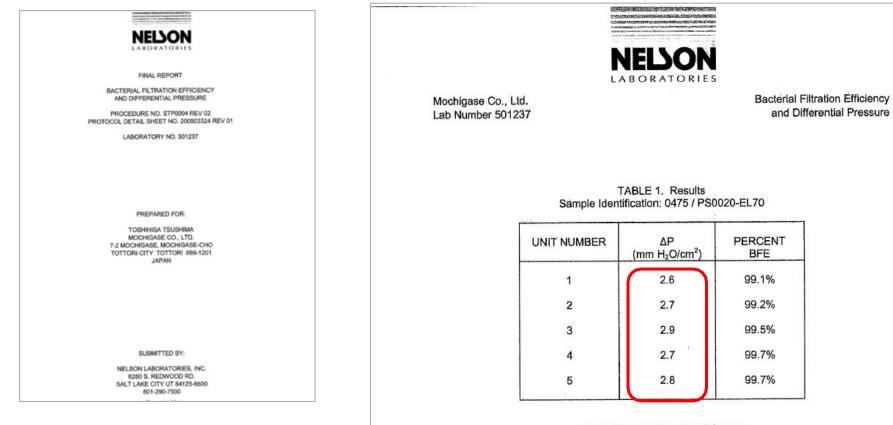
Page 1 of 7

|  |   | _   |  |              |  |                |                |  |
|--|---|---|--|--------------|--|----------------|----------------|--|
| LABOR  | SON   |   |  |              |  |                |                |  |
| FINAL REPORT<br>BACTERIAL FILTRATION EFFCIENCY<br>AND DIFFERENTIAL PRESSURE<br>PROCEDURE NO. STP0004 REV 02<br>PROTOCOL DETAIL SHEET NO. 20090324 REV 01 |   |   | Mochigase Co., Lid<br>Lab Number 50123 |              | Bacterial Filtration Efficiency<br>and Differential Pressure |                |                |  |
|  | Y NO. 501244  |   |  |              | BFE(<br>TABLE 1. Results<br>tification: 0475 / PS0           |                | 99%            |  |
| PREPAR   | and a regar to one proce  | Lab Number: Stubs7  | _                                      | UNIT NUMBER  | ΔP<br>(mm H₂O/cm <sup>2</sup> )                              | PERCENT<br>BFE |                |  |
| TOSHIHISA<br>MOCHIGAS  | PDS Approval Form   | PER INVERSE 200803324   |  | 1            | 2.6  | 99.1%          |                |  |
| 7-2 MOCHIGASE,<br>TOTTO<br>TOTTORI<br>JAF  | CONTACT: Toshiha Tourime<br>CONFACT: Toshiha Tourime<br>COMPANY: Mochigese Co., Lil.<br>(ENAL: Tourimeditoria annot no to   | LABORATORY / CONTRACTOR<br>Netson Laboratories, Inc.<br>50. Bail 100<br>SAT / Jest CITY, 15 Artholay<br>1999 Bours Restroco Reado<br>Bail / Jest City, 15 Artholay<br>Bail / Jest City, 15 Artholay |  | 2            | 2.7<br>2.9   | 99.2%<br>99.5% |                |  |
| JAF.   | FAX: 011-01-05-07303<br>PROTOCOL SPECIFICAT<br>PARENTAL DOCUMENT: SPE will be Pruss. SPECIFICAT<br>SRECTOR: Antibiotory   | Web the www.ontexters.com   |  | 4            | 2.7  | 99.7%          |                |  |
|  | Tampasikai<br>No changas ku iha Standard Testing Protocol.<br>Hutrock Instantanos   | TION DATE 12-Hor-2011   |  | 5            | 2.8  | 99.7%          |                |  |
| SUBMIT   | Teel according to Standard Teel Protocol  |   |  | CONTR        | OL AVERAGE: 2348   | CFU            |                |  |
| NELSON LABOF<br>6280 S. RED<br>SALT LAKE CITY<br>801-290   | 2   |   |  | MEAN         | PARTICLE SIZE: 3.1   | t µm           |                |  |
| Page   | The spensor is responsible for sections, which is the spensor spensor is responsible for sections, such as the section is the | tole characterization.<br>ph. purity, and elability.  |  |              |  |                |                |  |
|  | BROWER APPROVAL BELOOK<br>BEOMATURE J. J. Jane L. BOOMIT<br>DATE Mar. (J. 200 )<br>DATE Mar. (J. 200 )<br>DATE DATE AT JOINT AND PROTOK   | ABS BTUDY ENECTOR APPROVAL<br>M. Atta Caliz<br>17 Nord 2009<br>Sto Car Carling  |  |              |  |                |                |  |
|  | ал назнал нами фифаналися на 🕂  | Comply with requ  |  |              |  |                |                |  |
| 4490 COS   |   |   | U.S. ASTM F 2299 Standard              |              |  |                |                |  |
|  |   |   | European Stand                         |              |  |                |                |  |
|  |   |   | Chinese Standa                         | rd Technical | Requiremen   | nts for Protec | tive Face Mask |  |

for Medical Use YY 0469  $\geq$  95%



Qualified: U.S. 16 CFR Part 1610 Standard for the Flammability of Clothing: Class I



CONTROL AVERAGE: 2348 CFU

MEAN PARTICLE SIZE: 3.1 µm

## Qualified:

U.S. Standard 4.4.1.2 of MIL-M-36954C (8.0LPM) European Standard EN14683 <49 Pa/cm<sup>2</sup> Highest Level China Standard Technical Requirements for Protective Face Mask for Medical Use YY 0469 <49 Pa/cm<sup>2</sup>