

## MEDIAJET Petri Dish Compatibility List

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### Document Change History

| Vers. | Status:  | Name: | Date:      | Change:                                       |
|-------|----------|-------|------------|---|
| V13   | Released | GPo   | 19.02.2021 | Dishes from EIKEN, Sansei (both JP) added     |
| V14   | Released | GPo   | 18.08.2021 | FisherBrand dish (60x15 mm) added             |
| V15   | Released | GPo   | 22.09.2021 | Weber Scientific part #3051-15, 60x15mm added |

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## 1 Introduction

This document is intended to support sales representatives and customers working with MEDIAJET devices and applications.

For historical reasons, almost all PDs are not specifically designed for automated use. They are neither standardized. You can find an extensive variation of different Ø90/Ø100, Ø55/Ø60 or Ø35 dishes on the market. The actually measured dimension of the Petri dishes deviate from the nominal dimensions given by the manufacturer. We found variations of heights and diameters within the same product ID, even depending on the production location, and within the same lot.

Thus a general compatibility of a locally available Petri dish with MEDIAJET or MEDIAJET vario cannot be guaranteed by INTEGRA Biosciences.

For an exact specification of the dimensions for Petri dishes compatible with MEDIAJET please refer to the latest Operating Instructions (OI), 6.2 Petri dish specifications. In addition, this document lists a set of Petri dishes already successfully tested for mechanical processability and used on MEDIAJET by INTEGRA Biosciences.

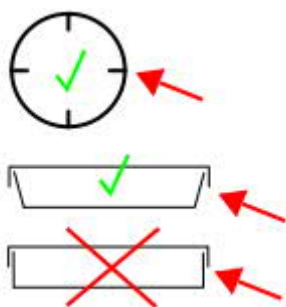
As manufactures can change the dimensions of their Petri dishes without prior informing INTEGRA Biosciences, this list can only serve as an indication and is subjected to continuous changes.



We recommend to test the application with the desired dishes and original media in the customer's lab.

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## 2 General Recommendations

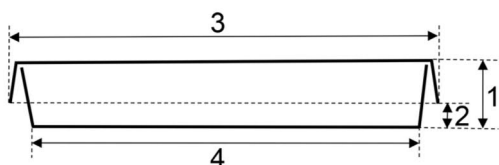


Use dishes with ventilation camps on the inside of the dish lid. Ventilation camps prevent the formation vacuum, the base can fall down.

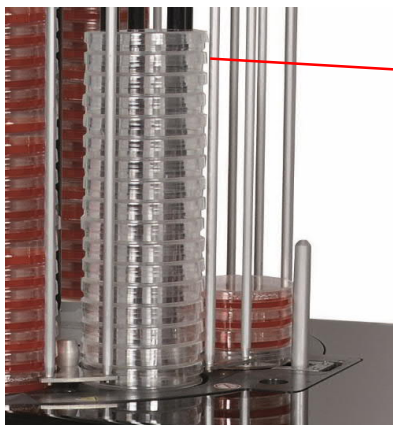
Dishes with stacking ring can be used, because the gripper mechanism gently holds the plates without shearing them away.

The base of the plate must be conical.

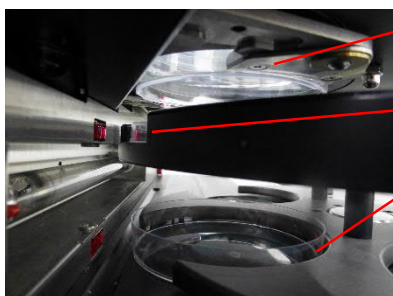
The following dimensions are critical for an optimal performance of the MEDIAJET:



1. **Dish height:** 12-25 mm
2. **Ground clearance:**  
 ≥ 6 mm (for Ø 90 mm dishes) or  
 ≥ 5 mm (for Ø 60 and Ø 35 mm dishes)
3. **Lid outer diameter**
4. **Base outer diameter**



If the lid outer diameter (at bottom) is too large, the lid gets stuck between the carousel rods.



If the ground clearance is too low, the gripper cannot grip the base without lid.

If the lid outer diameter is too small, the lid falls through the upper rotor position and the dish is not opened.

If the base outer diameter is too large, the base does not lie flat in the rotor and dispensing is not possible without spilling.

| Petri dish manufacturer nominal size | Lid outer diameter (3) (mm) | Base outer diameter (4) (mm) | Carousel | Rotor                    | Conversion set |
|--------------------------------------|-----------------------------|------------------------------|----------|--------------------------|----------------|
| 90 – 100 mm                          | 93.2 – 94.6                 | ≤ 88.4                       | 90L      | 90L                      | 90L            |
|                                      | 91.7 – 93.1                 |                              | 90       | 90 (standard or biplate) |                |
|                                      | 90.7 – 92.1                 | ≤ 87.6                       | 90S      | 90S                      |                |
| 55 – 60 mm                           | 58.0 – 59.4                 | ≤ 54.8                       | 60       | 60                       | 60             |
|                                      | 56.6 – 58.0                 | ≤ 51.2                       |          | 60S                      | 60S            |
| 35 mm                                | 37.8 – 39.2                 | ≤ 35.4                       | 35       | 35                       | 35             |

Special configurations for other Petri dish formats are available on request.

## 3 Petri dishes Ø90/Ø100 - MEDIAJET standard/vario

### 3.1 Petri dishes for 90 configuration (MEDIAJET standard PN 103005/103006 or MEDIAJET vario PN 113000/113001/113002)

| Manufacturer        | Product no./type  | Nominal Size          | Remark                        | Carousel   | Rotor   | Conversion set   |
|---------------------|---|-----------------------|-------------------------------|--|---|--|
| BD Falcon (Corning) | 351029  | 100 x 15 mm           |                               | for Ø90 mm:<br>Part No.<br>103 020 or<br>103 021 | for Ø90 mm:<br>Part No.<br>103 271<br><br>or<br><b>biplate</b><br>Part No.<br>113 806 | for Ø90 mm,<br>MEDIAJET<br>vario only:<br>Part. No.<br>113 051 |
| Bibby-Sterilin      | 101VR20   | 90 mm                 |                               |  |   |  |
| Corning Gosselin    | SH93-101<br>BH93B-102 (sterile)   | 90 x 14.2 mm          |                               |  |   |  |
|                     | SB93-101<br>SB93-102 (sterile)<br>BP93-101 (bag)<br>BP93-102 (sterile, bag) | 100 x 15 mm           | 90S rotor is also<br>suitable |  |   |  |
|                     | BT93-02   | 100 x 25 mm           | deep                          |  |   |  |
|                     | Fisherbrand   | FB0875712<br>standard | 100 x 15 mm                   |  |   |  |
| FL Medical, Italy   | 29052, 29062 (sterile)  | 90 x 16.2 mm          |                               |  |   |  |
| Greiner bio-one     | 633180<br>633102 (heavy)<br>633161 (heavy, sterile)<br>632181               | 94 x 16 mm            | Tested by IUS                 |  |   |  |
|                     | 664102 (heavy)<br>664160 (cellstar, ster.)                                  | 100 x 20 mm           |                               |  |   |  |
| Kord Valmark, USA   | 2909  | 100 x 25 mm           | deep                          |  |   |  |
| Nunc                | 4031  | 100 x 25 mm           | deep                          |  |   |  |
| Phoenix Biomedical  | 018   | 90 x 15 mm            |                               |  |   |  |
| Sarstedt AG         | 82.1473   | 92 x 16 mm            |                               |  |   |  |
|                     | 82.1472   | 92 x 16 mm            |                               |  |   |  |
| VWR                 | 391-0468, 391-0608<br>391-0469 (sterile)                                    | 90 x 16.2 mm          |                               |  |   |  |

| Manufacturer     | Product no./type | Nominal Size | Remark  | Carousel   | Rotor   | Conversion set   |
|------------------|------------------|--------------|---|--|---|--|
| Techno Plas (AU) | 10603001         | 90 x 14 mm   | Ground clearance (6 mm) just within specifications. | for Ø90 mm:<br>Part No.<br>103 020 or<br>103 021 | for Ø90 mm:<br>Part No.<br>103 271<br><br>or<br><b>biplate</b><br>Part No.<br>113 806 | for Ø90 mm,<br>MEDIAJET<br>vario only:<br>Part. No.<br>113 051 |

**Note:** Product numbers in brackets are not tested, but the dimensions are identical (e.g. sterile and non-sterile version).

### 3.2 Petri dishes for 90S configuration (MEDIAJET standard PN 103005/103006 or MEDIAJET vario PN 113000/113001/113002)

| Manufacturer         | Product no./type | Nominal Size    | Remark  | Carousel  | Rotor                               | Conversion set   |
|----------------------|------------------|-----------------|---|---|-------------------------------------|--|
| BIO-BIK              | I-90             | 90 mm           |   | for Ø90S<br>mm: Part No.<br>103 022 or<br>103 023 | for Ø90S mm:<br>Part No.<br>103 272 | for Ø90 mm,<br>MEDIAJET<br>vario only:<br>Part. No.<br>113 051 |
| LabServ, New Zealand | LBS60018X        | 90 x 20 mm      |   |   |                                     |  |
| Sarstedt AG          | 82.1473          | 92 x 16 mm      |   |   |                                     |  |
|                      | 82.1472          | 92 x 16 mm      |   |   |                                     |  |
| EIKEN Chemical (JP)  | AU3110           | 87.2 x 14.25 mm | Lid diameter (90.7 mm) just within 90S rotor specifications. Centering unit (PN 103048) for planar stacking of PDs is strongly recommended                                |   |                                     |  |
| EIKEN Chemical (JP)  | AU3240           | 87.3 x 14 mm    | Lid diameter (90.4 mm) is below 90S rotor specifications. PDs are still properly processed. Centering unit (PN 103048) for planar stacking of PDs is strongly recommended |   |                                     |  |
| Sansei (JP)          | 01-002 CL        | 90 x 15 mm      | Lid diameter (90.4 mm) is below 90S rotor specifications. PDs are still properly processed. Centering unit (PN 103048) for planar stacking of PDs is strongly recommended |   |                                     |  |

| Manufacturer | Product no./type | Nominal Size | Remark  | Carousel                                 | Rotor                         | Conversion set                                     |
|--------------|------------------|--------------|---|--|-------------------------------|--|
| Sansei (JP)  | 01-014 SCL       | 90 x 15 mm   | Lid diameter (90.5 mm) is below 90S rotor specifications. PDs are still properly processed. Centering unit (PN 103048) for planar stacking of PDs is strongly recommended           | for Ø90S mm: Part No. 103 022 or 103 023 | for Ø90S mm: Part No. 103 272 | for Ø90 mm, MEDIAJET vario only: Part. No. 113 051 |
| Sansei (JP)  | 01-004 FX        | 90 x 20 mm   | Deep PDs. Lid diameter (90.5 mm) is below 90S rotor specifications. PDs are still properly processed. Centering unit (PN 103048) for planar stacking of PDs is strongly recommended |  |                               |  |

### 3.3 Petri dishes for 90L configuration (MEDIAJET vario PN 113000/113001/113002)

| Manufacturer | Product no./type | Nominal Size | Remark | Carousel                     | Rotor                        | Conversion set                |
|--------------|------------------|--------------|--------|------------------------------|------------------------------|-------------------------------|
|              |                  |              |        | for Ø90L mm Part No. 113 022 | for Ø90L mm Part No. 113 460 | for Ø90L mm Part. No. 113 055 |
|              |                  |              |        |                              |                              |                               |
|              |                  |              |        |                              |                              |                               |

### 3.4 Biplate (two-compartment) Petri dishes (for MEDIAJET vario with biplate option PN 113002)

| Manufacturer      | Product no./type           | Nominal Size | Remark | Carousel                               | Rotor                                      | Conversion set               |
|-------------------|----------------------------|--------------|--------|--|--|------------------------------|
| Bibby-Sterilin    | 502V                       | 90 mm        |        | for Ø90 mm Part No. 103 020 or 103 021 | for Ø90 mm <b>biplate</b> Part No. 113 806 | for Ø90 mm Part. No. 113 051 |
| Corning Gosselin  | BI93D-101                  | 100 x 15 mm  |        |  |  |                              |
| FL Medical, Italy | 29057 (29067)              | 90 x 16.2 mm |        |  |  |                              |
| Greiner bio-one   | 635102<br>635161 (sterile) | 94 x 16 mm   |        |  |  |                              |
| Sarstedt AG       | 82.1195                    | 92 x 16 mm   |        |  |  |                              |
| VWR               | 391-0492                   | 90 x 16.2 mm |        |  |  |                              |

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| Manufacturer   | Product no./type | Nominal Size | Remark  | Carousel                                 | Rotor                         | Conversion set               |
|----------------|------------------|--------------|---|--|-------------------------------|------------------------------|
| Sansei (Japan) | 01-006 H         | 90 x 15      | Lid diameter (90.5 mm) is below 90S rotor specifications. PDs are still properly processed. Centering unit (PN 103048) for planar stacking of PDs is strongly recommended | for Ø90S mm: Part No. 103 022 or 103 023 | for Ø90S mm: Part No. 103 272 | for Ø90 mm Part. No. 113 051 |

## 4 Petri dishes Ø55/Ø60 - MEDIAJET vario

### 4.1 Petri dishes for 60 configuration (MEDIAJET vario PN 113000/113001/113002)

| Manufacturer        | Product no./type                                       | Nominal Size | Remark  | Carousel                          | Rotor                             | Conversion set                     |
|---------------------|--|--------------|---|-----------------------------------|-----------------------------------|------------------------------------|
| BD Falcon (Corning) | 351007   | 60 x 15 mm   |   | for Ø60 mm<br>Part No.<br>113 020 | for Ø60 mm<br>Part No.<br>113 271 | for Ø60 mm<br>Part. No.<br>113 052 |
| Corning-Gosselin    | BP53-06<br>BP53-03 (sterile)                           | 55 x 14.2 mm | Base of 54.1 mm too large for 60S rotor. BP50: same dimensions, no vents. |                                   |                                   |                                    |
| Greiner bio-one     | 628102<br>628160 (cellstar, ster.)<br>628161 (sterile) | 60 x 15 mm   |   |                                   |                                   |                                    |
| Kord Valmark, USA   | 2916   | 60 x 15 mm   |   |                                   |                                   |                                    |
| Sarstedt AG         | 82.1194  | 60 x 15 mm   | Set stack height to 16.1 instead of 15.8                                  |                                   |                                   |                                    |
| VWR                 | 391-3655   | 60 x 15 mm   |   |                                   |                                   |                                    |
| FisherBrand         | FB0875713A   | 60 x 15 mm   | Tested by IUS. Plate runs well.   |                                   |                                   |                                    |
| Weber Scientific    | 3051-15  | 60 x 15 mm   | Tested by IUS. Plate runs well.   |                                   |                                   |                                    |

### 4.2 Petri dishes for 60S configuration (MEDIAJET vario PN 113000/113001/113002)

| Manufacturer     | Product no./type | Nominal Size | Remark                                    | Carousel                          | Rotor                              | Conversion set                     |
|------------------|------------------|--------------|---|-----------------------------------|------------------------------------|------------------------------------|
| Tritech Research | T3308            | 60 x 15 mm   | Tested by IUS, plate runs well, no issues | for Ø60 mm<br>Part No.<br>113 020 | for Ø60S mm<br>Part No.<br>113 276 | for Ø60 mm<br>Part. No.<br>113 056 |
|                  |                  |              |   |                                   |                                    |                                    |

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## 5 Petri dishes Ø35 - MEDIAJET vario

### 5.1 MEDIAJET vario PN 113000/113001/113002

| Manufacturer                | Product no./type                                       | Nominal Size | Remark | Carousel            | Rotor               | Conversion set                     |
|-----------------------------|--|--------------|--------|---------------------|---------------------|------------------------------------|
| Greiner bio-one             | 627102<br>627160 (cellstar, ster.)<br>627161 (sterile) | 35 x 15 mm   |        | for Ø35 mm          | for Ø35 mm          | for Ø35 mm<br>Part. No.<br>113 053 |
| Thermo Scientific<br>(Nunc) | 153 066  | 35 x 10 mm   |        | Part No.<br>113 021 | Part No.<br>113 272 |                                    |