

## iSpacer® (imaging Spacer)

An imaging spacer keeping the biological tissue in good shape

### INTRODUCTION

iSpacers are made from adhesive tapes in different thickness. Simply press a spacer to a microscope slide or coverslip, a sealed watertight well is formed to contain RapiClear® in place and prevents evaporation. The well is sturdy and provide supreme support to thick and free-floating specimens, allowing preservation of tissues' delicate internal structures without compression. The specimen and spacer can be sandwiched between two coverslips. To better fulfil the user's different application needs, iSpacers not only come in various thicknesses, there are also iSpacers with single-sided stickers, as well as double-sided stickers. Utilizing these various designs, iSpacers can be stacked to create different depths desired for direct use with confocal microscopy.

### OPERATION

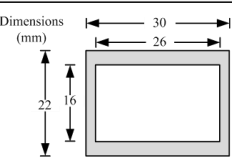
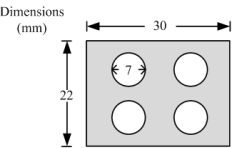
#### Single-sided sticky iSpacers

1. Clean the microscope slide or coverslip (size: 22 x 30 mm, 24 x 32 mm, or 24 x 40 mm) by Kimwipes
2. Peel off the protective liner from the iSpacers
3. Apply the spacer, with the exposed, tacky side down, onto the dry surface of the slide or coverslip.
4. Press gently to seal
5. To increase the sample well depth, add multiple spacers
6. Place the specimen within the well
7. Add appropriate amount of RapiClear® into the sample well
8. Seal the sample well by placing a coverslip
9. Press gently around the edges of the coverslip to ensure a safety seal
10. Carefully remove the exceeding solution from the well with Kimwipes
11. The area outside the well can be sealed with clear nail-polish to form a hard film

#### Double-sided sticky iSpacers

1. Clean the microscope slide or coverslip (size: 22 x 30 mm, 24 x 32 mm, or 24 x 40 mm) by Kimwipes
2. Peel off the protective liner from the iSpacers
3. Apply the spacer, with the exposed, tacky side down, onto the dry surface of the slide or coverslip.
4. Press gently to seal
5. To increase the sample well depth, add multiple spacers
6. Place the specimen within the well
7. Add appropriate amount of RapiClear® into the sample well
8. Peel off the other liner and seal the sample well by placing a coverslip
9. Press gently around the edges of the coverslip to ensure a safety seal
10. Carefully remove the exceeding solution from the well with Kimwipes
11. The area outside the well can be sealed with clear nail-polish to form a hard film

#### iSpacer layouts

	Single-sided sticky iSpacers	Double-sided sticky iSpacers																																				
 <p>Rectangular well designed</p>	<table border="1"> <thead> <tr> <th>Cat#</th> <th>Thickness (mm)</th> </tr> </thead> <tbody> <tr><td>IS101</td><td>0.15</td></tr> <tr><td>IS111</td><td>0.15</td></tr> <tr><td>IS001</td><td>0.2</td></tr> <tr><td>IS010</td><td>0.2</td></tr> <tr><td>IS002*</td><td>0.5</td></tr> <tr><td>IS011*</td><td>0.5</td></tr> <tr><td>IS003*</td><td>1.0</td></tr> <tr><td>IS012*</td><td>1.0</td></tr> </tbody> </table>	Cat#	Thickness (mm)	IS101	0.15	IS111	0.15	IS001	0.2	IS010	0.2	IS002*	0.5	IS011*	0.5	IS003*	1.0	IS012*	1.0	<table border="1"> <thead> <tr> <th>Cat#</th> <th>Thickness (mm)</th> </tr> </thead> <tbody> <tr><td>IS201</td><td>0.05</td></tr> <tr><td>IS211</td><td>0.05</td></tr> <tr><td>IS203</td><td>0.25</td></tr> <tr><td>IS213</td><td>0.25</td></tr> <tr><td>IS004</td><td>3.0</td></tr> <tr><td>IS013</td><td>3.0</td></tr> <tr><td>IS005</td><td>7.0</td></tr> <tr><td>IS014</td><td>7.0</td></tr> </tbody> </table>	Cat#	Thickness (mm)	IS201	0.05	IS211	0.05	IS203	0.25	IS213	0.25	IS004	3.0	IS013	3.0	IS005	7.0	IS014	7.0
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Movie in YouTube

<https://youtu.be/3OVhgtvwJc>

\*one pack of #IS201 or #IS211 inside; \*\* one pack of #IS204 or #IS214 inside.

### STORAGE

Avoid compression and store at room temperature (cannot autoclave). iSpacers are not compatible with acetone or ethanol. Use of organic solvents voids all warranties.

Most SunJin Lab's products and product applications are covered by U.S. and international patents.

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## PRODUCT LIST

Current prices may be obtained from our website ([www.sunjinlab.com](http://www.sunjinlab.com)) or from our distributors

Cat. #	Well #	Size	Volume	Package
<i>Single-sided sticky</i>				
IS101	1	26 x 16 mm, <u>0.15 mm deep</u>	75ul	50/pack
IS111 (value pack)	1	26 x 16 mm, <u>0.15 mm deep</u>	75ul	250/pack
IS001	1	26 x 16 mm, <u>0.2 mm deep</u>	100ul	50/pack
IS010 (value pack)	1	26 x 16 mm, <u>0.2 mm deep</u>	100ul	250/pack
IS002	1	26 x 16 mm, <u>0.5 mm deep</u>	250ul	50/pack
IS011 (value pack)	1	26 x 16 mm, <u>0.5 mm deep</u>	250ul	250/pack
IS003	1	26 x 16 mm, <u>1.0 mm deep</u>	500ul	50/pack
IS012 (value pack)	1	26 x 16 mm, <u>1.0 mm deep</u>	500ul	250/pack
IS006	4	7mm diameter, <u>0.15 mm deep</u>	12ul/each	50/pack
IS015 (value pack)	4	7mm diameter, <u>0.15 mm deep</u>	12ul/each	250/pack
IS007	4	7mm diameter, <u>0.2 mm deep</u>	15ul/each	50/pack
IS016 (value pack)	4	7mm diameter, <u>0.2 mm deep</u>	15ul/each	250/pack
IS008	4	7mm diameter, <u>0.5 mm deep</u>	35ul/each	50/pack
IS017 (value pack)	4	7mm diameter, <u>0.5 mm deep</u>	35ul/each	250/pack
IS009	4	7mm diameter, <u>1.0 mm deep</u>	75ul/each	50/pack
IS018 (value pack)	4	7mm diameter, <u>1.0 mm deep</u>	75ul/each	250/pack
<i>Double-sided sticky</i>				
IS201	1	26 x 16 mm, <u>0.05 mm deep</u>	25ul	50/pack
IS211 (value pack)	1	26 x 16 mm, <u>0.05 mm deep</u>	25ul	250/pack
IS203	1	26 x 16 mm, <u>0.25 mm deep</u>	125ul	50/pack
IS213 (value pack)	1	26 x 16 mm, <u>0.25 mm deep</u>	125ul	250/pack
IS004	1	26 x 16 mm, <u>3.0 mm deep</u>	1.5ml	10/pack
IS013 (value pack)	1	26 x 16 mm, <u>3.0 mm deep</u>	1.5ml	100/pack
IS005	1	26 x 16 mm, <u>7.0 mm deep</u>	3.5ml	10/pack
IS014 (value pack)	1	26 x 16 mm, <u>7.0 mm deep</u>	3.5ml	100/pack
IS204	4	26 x 16 mm, <u>0.05 mm deep</u>	4ul/each	50/pack
IS214 (value pack)	4	26 x 16 mm, <u>0.05 mm deep</u>	4ul/each	250/pack
IS206	4	7mm diameter, <u>0.25 mm deep</u>	18ul/each	50/pack
IS216 (value pack)	4	7mm diameter, <u>0.25 mm deep</u>	18ul/each	250/pack