

Harp Slice Grids™

Electrophysiology and imaging experiments with submerged slices won't work if the slices are drifting during perfusion. Securing slices with "homemade" grids requires spending time gluing bits of wire and nylon together and testing them on valuable preparations. Using ALA's **HARP SLICE GRIDS™** will provide more consistent results and more time to do experiments.

ALA's **HARP SLICE GRIDS™** are constructed with durable and inert materials like glass-coated steel rings and polyimide-coated silica fibers or nylon and they are available in suitable configurations for most preparations. They are designed for busy researchers who want to focus their efforts on running experiments, not setting them up.

Harp Slice Grids™ are available in two basic types:

The first type uses polyimide coated silica fibers as "strings" that lie across the preparation. The thinness of the "strings" (~50-65µm OD) combined with relatively wide spacing (about 1mm) facilitates electrode or pipette access from above the preparation. These are ideal for classical electrophysiological recordings with slices in submerged or interface chambers.

The second type employs nylon mesh in which the "strings" lay both horizontally and vertically across the preparation, forming squares of approximately 1mm². This is the preferred type when contact between the preparation and substrate electrodes is critical, such as during recording with multielectrode array systems. Also they are excellent when combining multielectrode array recording, such as the **MEA60** system, with conventional recording and stimulation methods.



HSG-5A

HSG-5AD



HSG-5B

HSG-5BD



HSG-5C

HSG-5CD

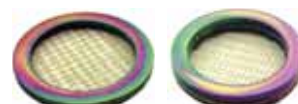
Harp Slice Grids™:

- * Glass-coated steel attachment rings are rigid, inert, and dense
- * Polyimide-coated silica capillary tubing are also inert, long-lasting, rigid, and are spaced widely to allow patch-pipette positioning
- * Tightly-woven nylon mesh are spaced narrowly and hold slices securely without impeding superfusate access
- * Wide variety of sizes and weights are suitable for most preparations
- * Custom grids may be available for specialized applications



HSG-MEA-5A

HSG-MEA-5AD



HSG-MEA-5B

HSG-MEA-5BD



HSG-MEA-5C

HSG-MEA-5CD

Ordering information and Specifications

String spacing is 1mm and the each string is ~ 50-65um thick

HSG-5A	9.5mm ID x 12mm OD x 0.5mm thick; 0.2g - 5 pack
HSG-5AD	same as above but 1.0mm thick and 0.4g - 5 pack
HSG-5B	9.5mm ID x 12.75mm OD x 0.83mm thick; 0.4g - 5 pack
HSG-5BD	same as above but 1.64mm thick and 0.8g - 5 pack
HSG-5C	6.4mm ID x 8mm OD x 0.5mm thick; 0.05g - 5 pack
HSG-5CD	same as above but 1.0mm thick and 0.1g - 5 pack

Nylon mesh with 1mm² spacing

HSG-MEA-5A	9.5mm ID x 12mm OD x 0.5mm thick; 0.2g - 5 pack
HSG-MEA-5AD	same as above but 1.0mm thick and 0.4g - 5 pack
HSG-MEA-5B	9.5mm ID x 12.75mm OD x 0.83mm thick; 0.4g - 5 pack
HSG-MEA5-BD	same as above but 1.64mm thick and 0.8g - 5 pack
HSG-MEA-5C	6.4mm ID x 8mm OD x 0.5mm thick; 0.05g - 5 pack
HSG-MEA5-CD	same as above but 1.0mm thick and 0.1g - 5 pack

Custom types may be available but minimum quantity orders will apply, please consult factory

Harp Slice Grids™



HSG-5D HSG-5DD

The HSG-5D versions have an oval interior for superior perfusion coverage



HSG-5E HSG-5ED

The HSG-5E versions are similar to the HSG-5D versions but are smaller in size and weigh less



HSG-5F HSG-5FD

The HSG-5F versions have an area where forceps can be used to place and pick up the grid thereby making placement easy.

These new Harp Slice Grid versions have been requested by customers.

Four new are available. Two offer superior perfusion flow. Another offers ease of placement and pick up in a chamber. The last set offer a nylon mesh with 1mm² cubes or 1.18mm² cubes.

The following versions are painted with a resistant epoxy coating:

HSG-5D HSG-5DD
HSG-MEA-5D HSG-MEA-5DD
HSG-5E HSG-5ED
HSG-MEA-5E HSG-MEA-5ED

The 5F, 5G, & 5H versions are glass coated.



HSG-5G HSG-5H

The HSG-5G uses a polyester mesh with 800um² grids. The HSG-5H uses a nylon mesh with 1mm² grids. They have the same dimensions as the A models.



HSG-MEA-5D HSG-MEA-5DD

The HSG-MEA-5D versions have an oval interior for superior perfusion coverage



HSG-MEA-5E HSG-MEA-5ED

The HSG-MEA-5E versions are similar to the HSG-MEA-5D versions but are smaller in size and weigh less



HSG-MEA-5F HSG-MEA-5FD

The HSG-MEA-5F versions have an area where forceps can be used to place and pick up the grid thereby making placement easy.

Ordering information and Specifications

String spacing is 1mm and the each string is ~ 50-65um thick

Nylon mesh with 1mm² spacing

HSG-5D	6.0x3.3mm ID x 12.7mm OD x 0.54mm thick; 0.18g - 5 pack	HSG-MEA-5D	6.0x3.3mm ID x 12.7mm OD x 0.5mm thick; 0.17g - 5 pack
HSG-5DD	same as above but 1.07mm thick and 0.35g - 5 pack	HSG-MEA-5DD	same as above but 0.8mm thick and 0.35g - 5 pack
HSG-5E	4.8x2.5mm ID x 9.5mm OD x 0.5mm thick; 0.1g - 5 pack	HSG-MEA-5E	4.8x2.5mm ID x 9.5mm OD x 0.6mm thick; 0.4g - 5 pack
HSG-5ED	same as above but .85mm thick and 0.2g - 5 pack	HSG-MEA-5ED	same as above but 1.0mm thick and 0.8g - 5 pack
HSG-5F	10.0mm ID x 13.8mm OD x 0.8mm thick; 0.18g - 5 pack	HSG-MEA-5F	10.0mm ID x 13.8mm OD x 0.8mm thick; 0.14g - 5 pack
HSG-5FD	same as above but 1.8mm thick and 0.33g - 5 pack	HSG-MEA5-FD	same as above but 1.5mm thick and 0.31g - 5 pack

Custom types may be available but minimum quantity orders will apply, please consult factory