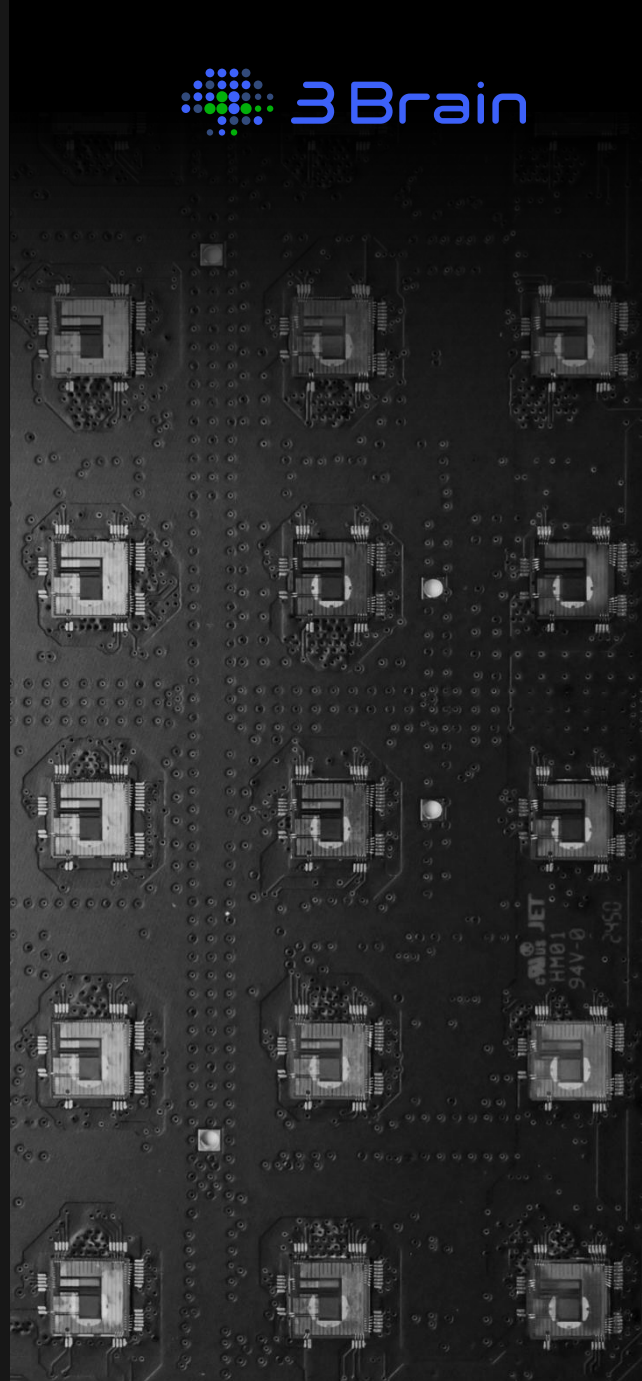


# Recommended Upright Microscope

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## Why an upright microscope is needed?

When seeding cells / placing samples on CorePlate™, it is only possible to observe them utilizing an upright microscope as CorePlate™ is non transparent.

## Recommended microscope

Although there are many suppliers of upright microscope, we recommend using the Evident Microscope and its associated components detailed in [Table 1](#), [Table 2](#) and [Table 3](#). This microscope is utilized in-house and delivers excellent results for imaging cells on CorePlate™. This microscope also features long working distance objectives, an essential feature due to the height of the CorePlate™ well. Equivalent configurations from other vendors may be adopted, however they have not been tested internally by 3Brain.

**Disclaimer:** The recommendation of the Evident microscope and its associated components is provided solely for informational purposes. While this microscope has been found to perform effectively with our equipment, 3Brain does not manufacture, sell, or provide technical support for this product.

## Mandatory, recommended, and optional components from EVIDENT.

This document contains three tables that categorize the microscope and its associated components as follows:

### **Table 1: Mandatory components from EVIDENT.**

These components are required for the setup of this upright microscope with options for mounting a camera and integrating fluorescence. They must be sourced from EVIDENT.

### **Table 2: Recommended components from EVIDENT for performing fluorescence microscopy**

These fluorescence microscopy components are recommended for this microscope to be fluorescence compatible and can be sourced from EVIDENT. However, additional fluorescence components, and alternative suppliers may also provide suitable options.

### **Table 3: Optional components from EVIDENT**

These components, such as the camera and software, are optional for the setup. You may already have suitable alternatives or prefer to source them from other suppliers.

Table 1. Mandatory components from EVIDENT

Item Name	Catalogue Number	Description
<b>BX53MRF-S-1-3 Microscope Frame</b>	N5730300	Upright microscope frame
<b>U-TR30-2-2 trinocular tube</b>	N1512000	Trinocular tube
<b>WHN10X-H-1-8 eyepiece</b>	N5728800	Focusable widefield eyepiece
<b>BX3M-URAS-S Illuminator</b>	N5232600	Manual encoded universal reflected light illuminator
<b>U-D6RE REVOLV. NOSEPIECE F. DI</b>	037402	Sextuple revolving nosepiece with a slot for analyser or DIC slider
<b>U-DULHA</b>	038327	Lamp house adapter for the use of two lamp houses
<b>U-25ND6</b>	037828	Filter slider containing a 6% transmission neutral density filter
<b>U-25ND25 GREY-FILTER 25% I/SLI</b>	037829	Filter slider containing a 25% transmission neutral density filter
<b>BX3M-LEDR Light source</b>	N5232800	Reflected LED light source
<b>U-TV0.63XB Camera Adapter</b>	N4262300	B4 bayonet mount adapter with magnification factor 0.63x
<b>U-DICR</b>	037882	DIC Prism slider for reflected light
<b>U-SVRM</b>	037494	Rackless mechanical stage with right-hand control
<b>U-MSSP STAGE PLATE F.U-SVR/LM</b>	037497	Metal stage plate for U-SVRM and U-SVLM.
<b>U-AN360-3</b>	037877	360° rotatable analyser slider
<b>U-PO3 POLARIZER</b>	037706	Polarizer slider for reflected light illuminator
<b>SLMPLN20X Objective</b>	N2246400	Super long working distance material science plan achromat objective. Magnification 20X
<b>LMPLFLN10X Objective</b>	N2183200	Long working distance material science fluorite objective, Magnification 10x
<b>LMPLFLN5X Objective</b>	N2183100	Long working distance material science fluorite objective. Magnification 5x
<b>018 DUST COVER F.BX2</b>	035487	Dust cover

Item Name	Catalogue Number	Description
<b>BX/GX_I-D0-INST Installation</b>	ESS00102	The installation of the BX4, BX5 and GX microscope systems
<b>Magnification Changer</b>	U-CA-1-3	Magnification Changer

Table 2. Recommended components from EVIDENT for performing fluorescence microscopy

Item Name	Catalogue Number	Description
<b>U-LH100HG-1-7 lamphouse 100W</b>	N2757800	Lamphouse incl. lamp socket and aspherical collector lens for 100 W mercury discharge lamp
<b>U-RFL-T-1-3 power supply</b>	N5717900	U-RFL-T-1-3 power supply for 100 W mercury discharge lamp, input rating 100V-240V
<b>USH-103 OL MERCURY</b>	N1217800	USHIO 100 W mercury discharge lamp
<b>U-FUNA FL filter cube</b>	N2712100	Single-band Fluorescence cube for BX3 and IX3 cube turrets. Narrow UV excitation and Bandpass emission filter. Exciter filter: 360-370 nm, Beam splitter: 410 nm, Barrier Filter: 420-460 nm
<b>U-FGNA FL filter cube</b>	N2713100	Single-band Fluorescence cube for BX3 and IX3 cube turrets. Narrowband green excitation and bandpass emission filter. Exciter filter: 540- 550 nm, Beam splitter: 570 nm, Barrier filter: 575-625 nm
<b>U-FBNA FL filter cube</b>	E0439739	Single-band Fluorescence cube for BX3 and IX3 cube turrets. Narrow Blue excitation and Bandpass emission filter. Exciter filter: 470-495 nm, Beam splitter: 505 nm, Barrier filter: 510-550 nm
<b>U-LH100HG-1-7 lamphouse 100W</b>	N2757800	Lamphouse incl. lamp socket and aspherical collector lens for 100 W mercury discharge lamp

Table 3. Optional components from EVIDENT

Item Name	Catalogue Number	Description
<b>DP28-CU-1-2 Camera</b>	E9701758	8.9 Mpx, 1 inch, color CMOS Camera with global shutter for Cmount adaption, no cooling, USB 3.1 interface. Including: camera head, USB 3.1 cable and user manual. Support by cellSens/STREAM, D P2-TWAIN and DP28-AOU
<b>PV-DVD-1.2 PRECiV DVD V1.2</b>	N6406900	PRECiV Setup DVD for software version PRECiV 1.2