

# CELENA<sup>®</sup> S Objective Selection Guide



## Plan Achromatic Objectives

Plan achromatic objectives are corrected for axial chromatic aberration in two wavelengths, spherical aberration in the color green, and flat-field aberration. The CELENA<sup>®</sup> TC PlanAchromatic Ph objectives are long working distance objectives that are suitable for routine brightfield, phase contrast, and fluorescence imaging with most cell culture vessels.

### Plan Achromatic Objectives

Cat #	Objective	NA	WD (mm)	Phase contrast	LWD*	Coverslip corrected**	Immersion
I10001	TC PlanAchromatic 4X Ph	0.13	17.3	●	●	-	-
I10002	TC PlanAchromatic 10X Ph	0.25	7.6	●	●	-	-
I10003	TC PlanAchromatic 20X Ph	0.4	7.0	●	●	-	-
I10004	TC PlanAchromatic 40X Ph	0.65	2.8	●	●	-	-

## Plan Fluorite Objectives

Plan fluorite objectives are produced from advanced glass formulations and provide a higher level of correction.

The CELENA<sup>®</sup> TC PlanFluor objectives are long working distance fluorite objectives that have been designed to be used with standard culture vessels. These objectives are suitable for sensitive fluorescence imaging and higher resolution brightfield imaging.

### Plan Fluorite Objectives

Cat #	Objective	NA	WD (mm)	Phase contrast	LWD*	Coverslip corrected**	Immersion
I10005	TC PlanFluor 4X	0.13	17.5	-	●	-	-
I10006	TC PlanFluor 10X	0.3	7.5	-	●	-	-
I10007	TC PlanFluor 20X	0.4	7.5	-	●	-	-
I10008	TC PlanFluor 40X	0.6	2.9	-	●	-	-

## Plan Apochromatic Objectives

Apochromatic objectives are corrected for chromatic aberration and spherical aberration in multiple colors.

The CELENA<sup>®</sup> Plan Apochromat Fluor objectives are exceptional objective lenses that can be used for highly sensitive fluorescence imaging and the highest resolution imaging applications.

### Plan Apochromat Objectives

Cat #	Objective	NA	WD (mm)	Phase contrast	LWD*	Coverslip corrected**	Immersion
I10013	Plan Apochromat Fluor 1.25X	0.04	3.7	-	-	-	-
I10014	Plan Apochromat Fluor 4X	0.13	17.2	-	-	-	-
I10009	Plan Apochromat Fluor 10X	0.3	8.6	-	-	●	-
I10010	Plan Apochromat Fluor 20X	0.65	0.7	-	-	●	-
I10011	Plan Apochromat Fluor 40X	0.8	0.2	-	-	●	-
I10015	Plan Apochromat Fluor Oil 40X	0.85	0.2	-	-	●	Oil
I10012	Plan Apochromat Fluor Oil 100X	1.25	0.19	-	-	●	Oil

\*LWD = Long working distance; for use with culture vessels with ~1 mm thickness

\*\*Coverslip corrected = for use with coverslips with 0.17 mm thickness