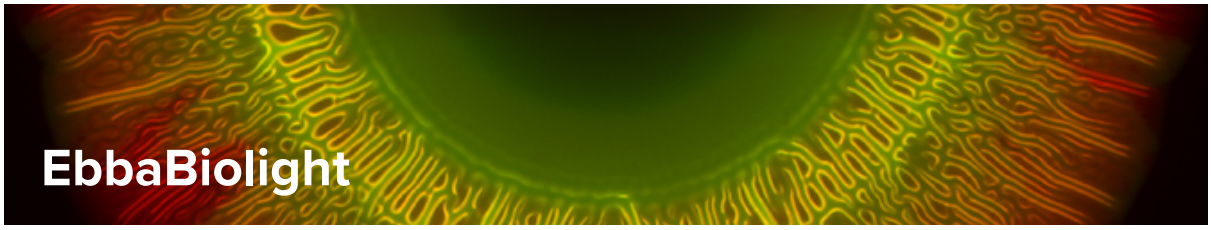
Ebba Biotech

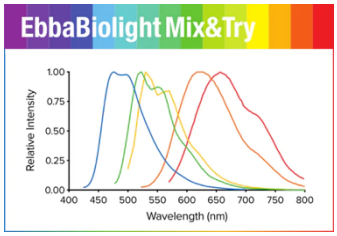


EbbaBiolight are optotracers for detection of bacteria & components of bacterial biofilm.

EbbaBiolight is available in five variants which label extracellular and intracellular bacterial amyloids as well as certain glucans produced as part of the extracellular matrix. Specifically, EbbaBiolight variants have been used as follows: EbbaBiolight 480 labels extracellular matrix produced by *P. aeruginosa* but not *C. albicans* in a mircofluidic device during mono- and co-culture. EbbaBiolight 630 and EbbaBiolight 680 label peptidoglycan and lipoteichoic acids in the cell wall of certain gram positives like *Staphylococci* and *E. faecalis*. EbbaBiolight 680 labels curli in the extracellular matrix produced by *Salmonella* as well as β-glucans and chitins in yeast- and hypal forms of *C. albicans*. It has been used to track pellicle formation in *B. cenocepacia* and label extracellular matrix components in *Pseudomonas* and *E. coli.*

All EbbaBiolight variants are exceptionally photostable and fluorogenic. When bound to a target, the optotracers can be imaged using fluorescence microscopy and spectral information can be acquired using a fluorescence spectrophotometer. As spectral information can give hints of the nature of the target, we recommend to acquire excitation and emission spectra whenever possible. All EbbaBiolight variants are intended for use in live-cultures. Fixation can lead to unspecific labelling of bacterial cells, regardless of them gram status. If fixation needs to be performed, we recommend to apply fixation after labelling. EbbaBiolight variants work in a wide range of salt and pH conditions. When the pH is altered during the experiment, pH controls should be included. EbbaBiolight can be used with fluorescence plate readers, fluorescence microscopes and confocal laser scanning microscopes, fluorescence life time imaging, fluorescence cytometry, Total internal reflection fluorescence (TIRF) microscopy and Multiphoton microscopy. Store your EbbaBiolight product in the fridge and use the opened container within 12 months. EbbaBiolight is for research use only and is not for resale.

Products



EbbaBiolight Mix&Try is our recommended option for starting out with using EbbaBiolight. It contains 10 µL of each variant. Testing each variant in the EbbaBiolight Mix&Try Kit will allow you to determine which one of our optotracers is best suited for your experiment.

All EbbaBiolight variants label extracellular and intracellular bacterial amyloids as well as certain glucans produced as part of the extracellular matrix. Specifically, the optotracers have been used as follows:

EbbaBiolight 480 labeling extracellular matrix produced by *P. aeruginosa* but not *C. albicans* in a mircofluidic device during mono- and co-culture. EbbaBiolight 630 labeling peptidoglycan and lipoteichoic acids in the cell wall of certain gram positives like *Staphylococci* and *E. faecalis*. EbbaBiolight 680 labeling curli in the extracellular matrix produced by *Salmonella* as well as β-glucans, chitin and intracellular amyloid aggregates in yeast- and hypal forms of *C. albicans*. Furthermore, it has been used to track pellicle biofilm formation in *B. cenocepacia*.

Table: Excitation- and emission wavelengths as well as recommended filter sets.

	Ex_{max}	Em_{max}	Recommended filter-sets
EbbaBiolight 480	420 nm	480 nm	DAPI
EbbaBiolight 520	460 nm	520 nm	FITC, GFP
EbbaBiolight 540	480 nm	540 nm	FITC, GFP, YFP
EbbaBiolight 630	520 nm	630 nm	PI, Cy3, TxRed, mCherry, Cy3.5
EbbaBiolight 680	530 nm	680 nm	PI, mCherry, Cy3.5

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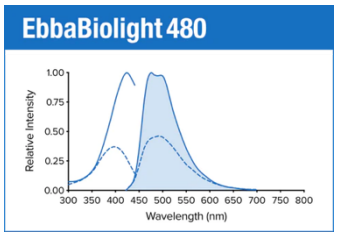
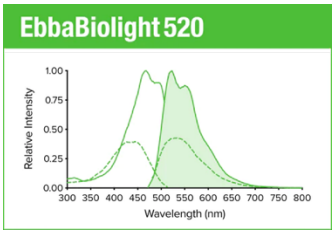


EbbaBiolight 480 is our blue optotracer for labeling extracellular and intracellular bacterial amyloids as well as certain glucans produced as part of the extracellular matrix. Specifically, EbbaBiolight 480 has been used to label extracellular matrix produced by *P. aeruginosa* but not *C. albicans* in a mircofluidic device during mono- and co-culture.

Table: Excitation- and emission wavelengths as well as recommended filter sets.

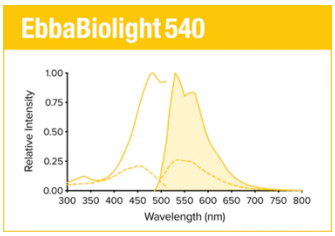
	Ex_{max}	Em_{max}	Recommended filter-sets
EbbaBiolight 480	420 nm	480 nm	DAPI



EbbaBiolight 520 is our green optotracer for labeling extracellular and intracellular bacterial amyloids as well as certain glucans produced as part of the extracellular matrix.

Table: Excitation- and emission wavelengths as well as recommended filter sets.

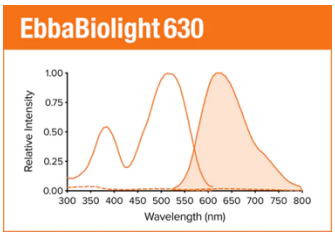
	Ex_{max}	Em_{max}	Recommended filter-sets
EbbaBiolight 520	460 nm	520 nm	FITC, GFP



EbbaBiolight 540 is our yellow optotracer for labeling extracellular and intracellular bacterial amyloids as well as certain glucans produced as part of the extracellular matrix.

Table: Excitation- and emission wavelengths as well as recommended filter sets.

	Ex_{max}	Em_{max}	Recommended filter-sets
EbbaBiolight 540	480 nm	540 nm	FITC, GFP, YFP



EbbaBiolight 630 is our orange optotracer for labeling extracellular and intracellular bacterial amyloids as well as certain glucans produced as part of the extracellular matrix. Specifically, EbbaBiolight 630 labels peptidoglycan and lipoteichoic acids in the cell wall of certain gram positives like *Staphylococci* and *E. faecalis*.

Table: Excitation- and emission wavelengths as well as recommended filter sets.

	Ex_{max}	Em_{max}	Recommended filter-sets
EbbaBiolight 630	520 nm	630 nm	PI, Cy3, TxRed, mCherry, Cy3.5

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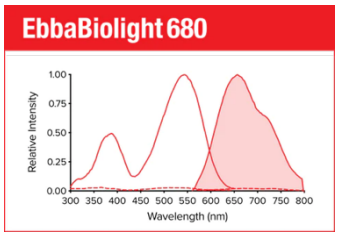

EbbaBiolight 680 is our red optotracer for labeling extracellular and intracellular bacterial amyloids as well as certain glucans produced as part of the extracellular matrix. Specifically, EbbaBiolight 680 labels curli in the extracellular matrix produced by *Salmonella* as well as β-glucans and chitins in yeast- and hyphal forms of *C. albicans*. Furthermore, it has been used to track pellicle biofilm formation by *B. cenocepacia*.

Table: Excitation- and emission wavelengths as well as recommended filter sets.

	Ex_{max}	Em_{max}	Recommended filter-sets
EbbaBiolight 680	530 nm	680 nm	PI, mCherry, Cy3.5

EbbaBiolight 680 is available in four different formulations (See volumes and prices in the drop-down list below):

- **Aqueous:** 1 mg/ml solution in ultrapure water. The product should be diluted 1:1000 before use. To prevent evaporation of the aqueous solvent, close the container carefully after use, spin down liquid and use up small volumes quickly.
- **DMSO:** 1 mg/ml solution in DMSO to prevent solvent evaporation. The product should be diluted 1:1000 before use. For use in live-cells, sometimes 1:500 is necessary due to uptake limitations.
- **Solid:** 1 mg solid lyophilised in a sterile injection bottle. We recommend dilution to 4 mg/ml in physiological saline followed by intravenous injection with a total dose of 5 mg/KG.
- **Drop&Shine:** 5 ml ready-to-use product in mounting medium. Ideal for use in tissue sections. Add some Drop&Shine and mount your slide to detect biofilms within minutes.

Customer Service

Applications

Scan QR-code for direct access/link to the Scan QR-code for direct access/link to protocols on the Ebba Biotech website.

Fluorescence Spectra

Scan QR-code for direct access/link to the excitation and emission spectra on the Ebba Biotech Website.

More information, including volume and concentration options, is available on our website. Contact us for custom options or if you have further questions regarding products or applications.

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