



TurboTag™ Labeling Kits

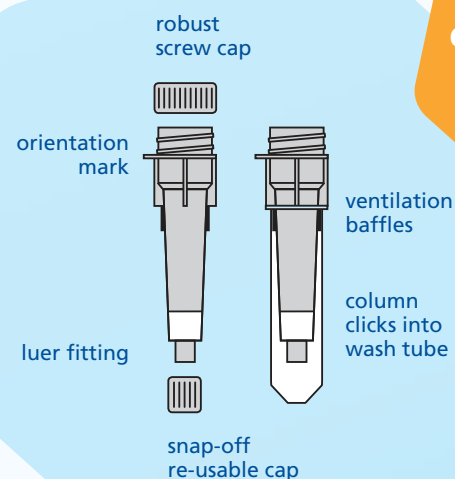
Simplified workflows for efficient conjugation



Our **TurboTag™** labeling kit delivers precision labeling and rapid purification of antibodies, enzymes and other proteins.

For controlled labeling and purification of biomolecules having a molecular weight greater than 25 kDa. The kits offer fluorescent dyes spanning a wide spectral range and incorporate **emp BIOTECH ZetaSpin** columns for fast and efficient purification in only 10 minutes.

TurboTag™
labeling kits
include the unique
emp ZetaSpin Columns
for efficient and
easy purification



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emp BIOTECH is an ISO 9001:2015 certified company
Registration number 011001300789 (TÜV Rheinland)

Fluorescent Dyes

Making science brighter



*excellence
made possible*

emp BIOTECH develops and produces fluorescent dyes for a growing range of bioanalytical applications, such as confocal laser scanning microscopy (CLSM), flow cytometry (FACS), and various immunofluorescence techniques. Our portfolio includes nuclear stains, classical fluorescent dyes, and innovative solutions tailored to scientific needs – such as methylene blue derivatives for redox applications.

Many of our dyes are available in fast (< 10 min) and reliable **TurboTag™** labeling kits, enabling the efficient creation of bright and stable antibody and protein conjugates.

emp BIOTECH manufactures dyes and labels under ISO 9001-certified processes, with strict quality controls to ensure extinction coefficients are above specification requirements. This delivers reliable and consistent fluorophore performance, irrespective of the application.

Our dye-related portfolio comprises the following product lines:



Nuclear Stains

Reliable solutions for clear visualization

DAPI (4',6-Diamidino-2-phenylindole) and Hoechst 33342 are used as blue nuclear counterstain for fixed- and live-cell fluorescence microscopy and cellular imaging. For your convenience, they are provided as ready to use aqueous solution.

Product	Order No.	Unit Size
DAPI aqueous solution, 1 mg/mL	F-0410-M001.0-001	1 mL
Hoechst 33342, 20 mM in water	F-0409-M005.0-001	5 mg
Hoechst 33342, 5 mg/mL in water	F-0409-M020.0-001	20 mg



Redox Markers

Innovative tools for metabolic and redox studies

Methylene blue is a well-known redox-active compound capable of mediating electron transfer between redox enzymes (such as glucose oxidase) and electrodes. It offers several key advantages, including stability under mild conditions, strong visible light absorption, low toxicity at small concentrations, and compatibility with both aqueous and biological environments.

For electrochemical biosensor applications, *emp BIOTECH* offers a wide range of electroactive redox indicators for labeling of biomolecules, specifically nucleic acids, to form labeled probes equipped with redox-active reporter groups.



Fluorescent Dyes

High-quality reagents for bright and stable signals

What sets us apart?

- High photostability and brightness
- Batch-to-batch consistency
- Tailor-made solutions with custom dye conjugation chemistry, designed for your workflow.

To meet the needs for multiple conjugation chemistries, *emp BIOTECH* has extended the portfolio accordingly.

Fluorescent Dyes	Excitation [nm]	Excitation [nm]	Extinction Coefficient [M ⁻¹ cm ⁻¹]	Carboxylic Acid	Activated Ester	Maleimide	Amine	Iodoacetamide	Azide	Alkyne
5(6)-FITC	494	518	> 70.000	–	AF-0115	–	F-0116	–	–	–
5(6)-FAM	492	517	> 74.000	F-0101	AF-0101	–	F-0111 TF-0121	–	TF-0118	TF-0115
5-FAM	492	517	> 74.000	F-0105	AF-0105	TF-0110	F-0117 TF-0122	TF-0113	TF-0119	TF-0116
6-FAM	492	517	> 74.000	F-0106	AF-0106	TF-0114	F-0118 TF-0123	–	TF-0120	TF-0117
5(6)-TAMRA	554	577	> 80.000	F-0102	AF-0102	–	F-0120	–	TF-0127	TF-0124
5-TAMRA	550	572	> 80.000	F-0107	AF-0107	–	–	–	TF-0128	TF-0125
6-TAMRA	550	572	> 80.000	F-0108	AF-0108	–	–	–	TF-0129	TF-0126
5-ROX	578	594	> 85.000	F-0109	–	–	–	–	–	–
6-ROX	578	594	> 85.000	–	AF-0110	–	–	–	–	–