

# MODULAR AND VERSATILE REACTOR FOR BATCH AND FLOW PHOTOCHEMISTRY



PHOTOCUBE  
PLUS



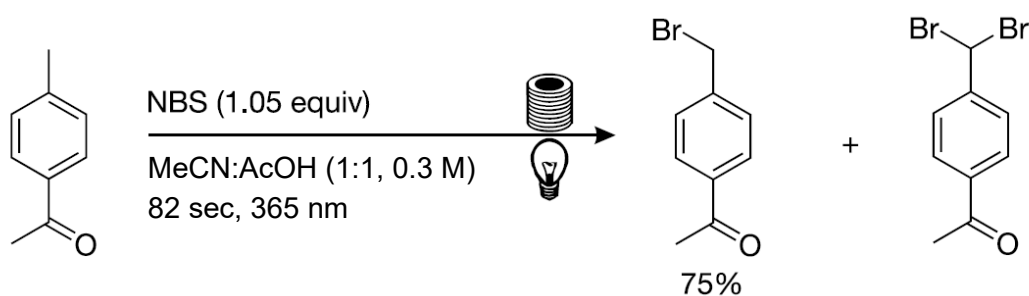
*Carrying on the Legacy of the Original R&D TOP 100 Award-Winning PhotoCube™*

## FEATURES

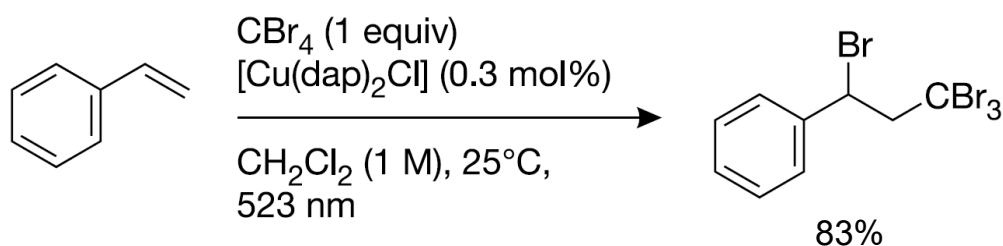
- **4 LED wavelengths in one device**
- **Basic configuration:** 365 nm, 457 nm, 523 nm, 625 nm
- Easily interchangeable **custom wavelength types** available upon request
- **Multiple wavelengths** can be operated **at once**
- **Touchscreen interface** to control reaction parameters like temperature, light intensity, and stirring speed
- **Medium temperature:** 10 - 15 °C with cooler; 40 - 50 °C without cooler (at max. LED power)
- Compensates heat production of light absorption by **cooling** via **cold finger technology**, each vial can be cooled down to sub-ambient temperature separately
- **Compatible** with **ThalesNano's instrument fleet systems** and software for **remote control** and **automation**

## APPLICATIONS

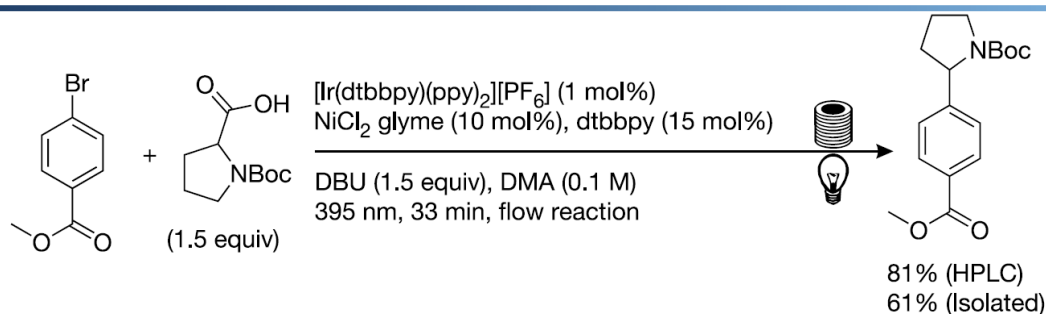
### Bromination



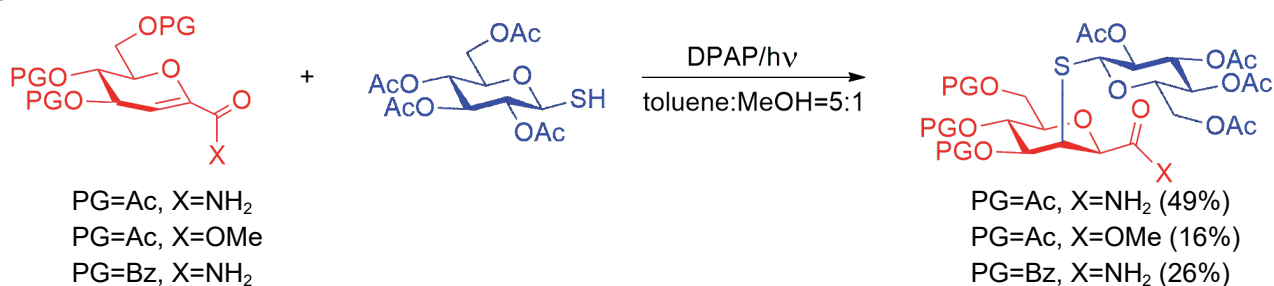
### Atom Transfer Radical Addition



### C-C Coupling



### Thiol-Ene Click Reaction



## COMPATIBILITY WITH OTHER DEVICES

The PhotoCube™ Plus can be connected to **ThalesNano instrument fleet systems** via the **THS System Controller®** (for communication between the devices) and **THS ReAction® Software** (for remote control).

### Benefits:

- Part of a platform designed for **parallel** or **consecutive** reaction workflows
- **Remote control** of all devices connected to the software
- **Real-time monitoring** of reaction parameters
- **Automated operation mode:** set pre-defined sequences, execute step-by-step instructions, adjust parameters at specified time points



## SPECIFICATIONS

<b>Medium temperature at max. LED power</b>	10 - 15 °C with cooler; 40 - 50 °C without cooler
<b>Cooling</b>	Cooler module with cold finger technology
<b>Liquid flow rate</b>	0.1 - 10 mL/min
<b>Basic LED configurations</b>	365 nm, 457 nm, 523 nm, 625 nm
<b>Max. light capacity</b>	24 W/color
<b>Batch mode</b>	4 x 4 ml or 4 x 30 ml vials
<b>Flow mode</b>	8 ml loop
<b>Mains voltage</b>	230 V AC, 50 - 60 Hz
<b>Power input</b>	PhotoCube™ Plus: 12 V, 150 W, cooler: 12 V, 250 W
<b>Dimensions (H x W x D), with cooler</b>	270 x 244 x 420 mm
<b>Weight</b>	12 kg (with cooler module)

# CREATE THE LAB OF THE FUTURE WITH US!



*Trusted Photochemistry Partner Worldwide*



**Award-winning  
technology**

The original PhotoCube™ received the  
**R&D TOP 100 Award** in 2021,  
highlighting the instrument's  
innovative nature.



**Backed up by  
scientific papers**

**Over 40 publications** utilized  
ThalesNano's photoreactors to conduct  
research and contribute to scientific  
discovery.

## CONTACT THALESNANO

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