

MODULAR AND VERSATILE REACTOR FOR BATCH AND FLOW PHOTOCHEMISTRY



PHOTOCUBE
PLUS



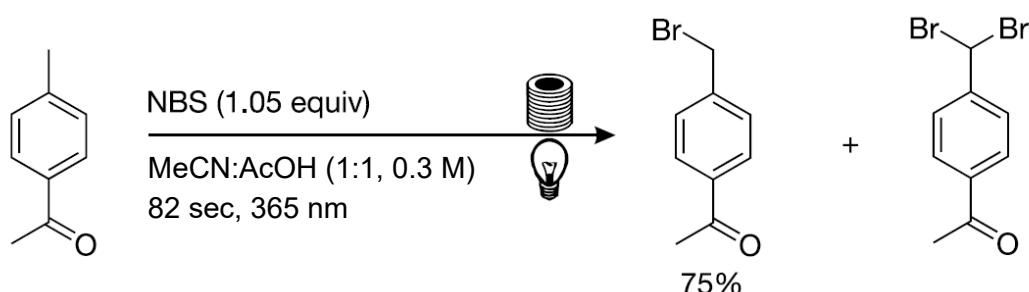
Carrying on the Legacy of the Original R&D TOP 100 Award-Winning PhotoCube™

FEATURES

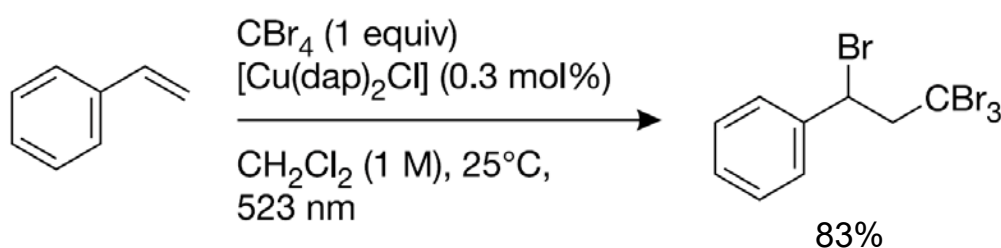
- **4 LED wavelengths in one device**
- **Basic configuration:** 365 nm, 457 nm, 523 nm, 625 nm
- Easily interchangeable **custom wavelength types** available upon request
- **Multiple wavelengths** can be operated **at once**
- **Touchscreen interface** to control reaction parameters like temperature, 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

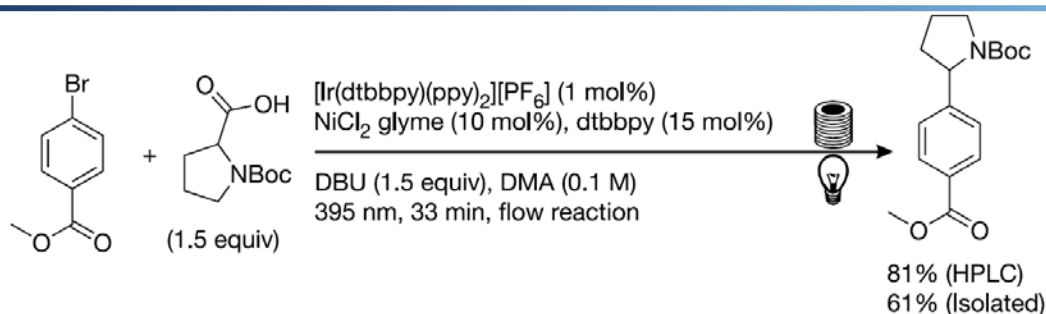
Bromination



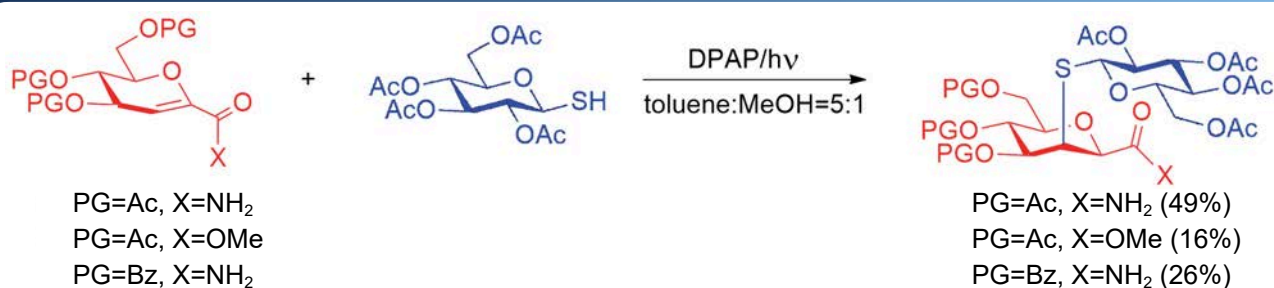
Atom Transfer Radical Addition



C-C Coupling



Thiol-Ene Click Reaction

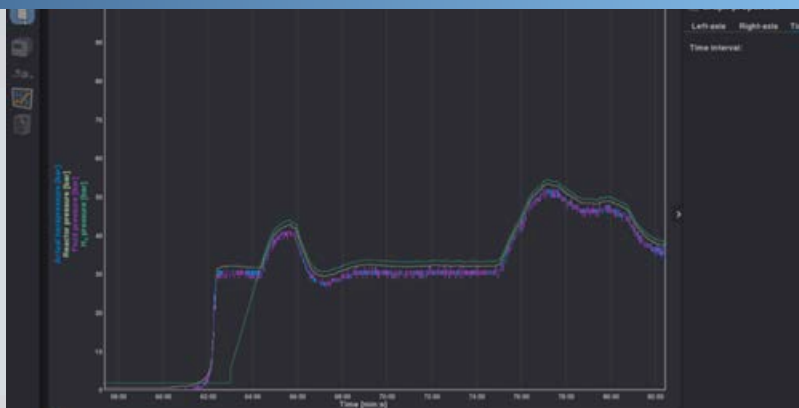


COMPATIBILITY WITH OTHER DEVICES

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

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

For more information, visit
www.thalesnano.com



ThalesNano Inc.
Záhony utca 7.
H-1031 Budapest | Hungary
Email: sales@thalesnano.com
www.thalesnano.com

US Office
50 S. Penn St. Suite B-2
Hatboro PA. 19040 USA
Phone: 215-534-3365
E-mail: USAsales@thalesnano.com