

# Fluorescence Targets, Phantoms & Services

ICG, Q800 (pafolacianine/IRDye™800), and Q700 (SGM-101, Cy5.5) reference targets and phantoms with bio-mimicking optical properties. Custom solutions with fluorophores, optical properties, and geometries available.

## Application-specific targets and phantoms for all your needs!

### Reference Targets

- System characterization
  - Concentration sensitivity
  - Depth sensitivity
  - Resolution
  - Radiometric emitter
- Regulatory submissions
  - Predicate comparisons
- Multi-center imaging studies



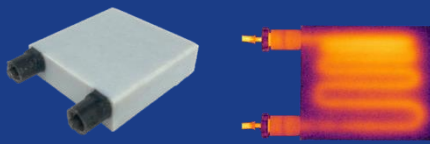
### Fluorescence Phantoms

- Demonstrations
  - Trade-shows
  - Internal status updates
- Development testing
- Frequent use
- System functionality checks
- Site-specific anatomy



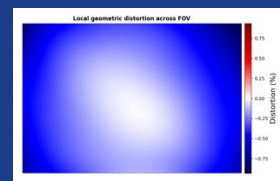
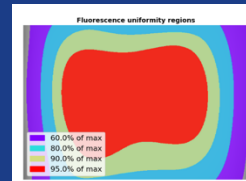
### FluoFlow™ - Dynamic Flow Tissue Phantom

- Test contrast agents in tissue equivalent optical environments



### Fluorescence Uniformity and Distortion Target

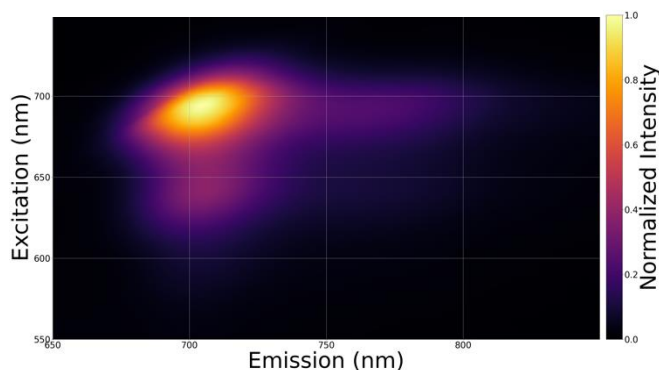
- Characterize illumination and imaging uniformity of imaging systems



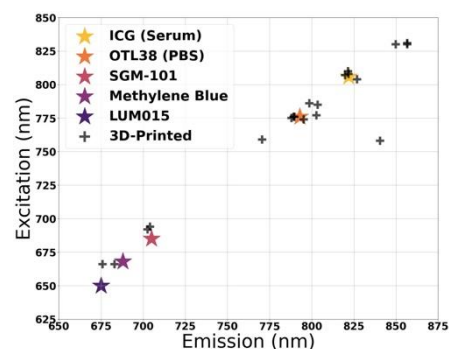
## Fluorescence Characterization and Customization Services

*Are you developing a new fluorophore for fluorescence guided surgery?*

- Standard fluorophore characterization procedures
- Ideal for lead candidate selection and identifying compatible imaging systems



Excitation-emission matrix and absorbance spectra characterization services available



- 3 standard fluorophore reference lines available
- Phantoms with custom fluorophores are available to meet application-specific needs

For more information, contact us here:



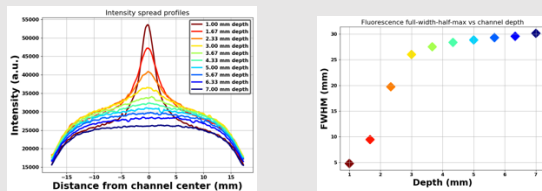
## Custom Design and Manufacturing

*Illuminate Innovation: Create fluorescent phantoms with complex geometries and analysis tools*

Our manufacturing process enables cost-effective custom phantoms. **Ask us about image analysis code development!**



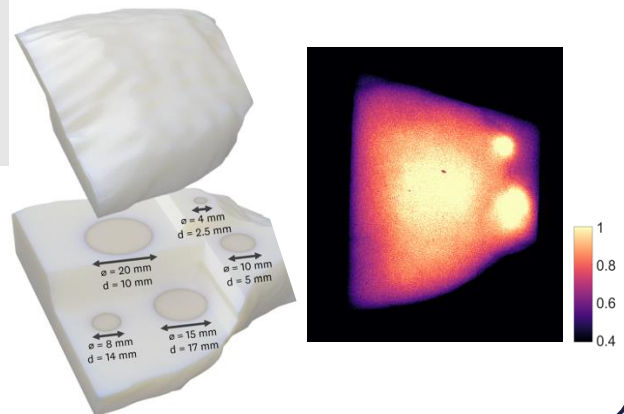
1. Design    2. Manufacture    3. Image



4. Analyze

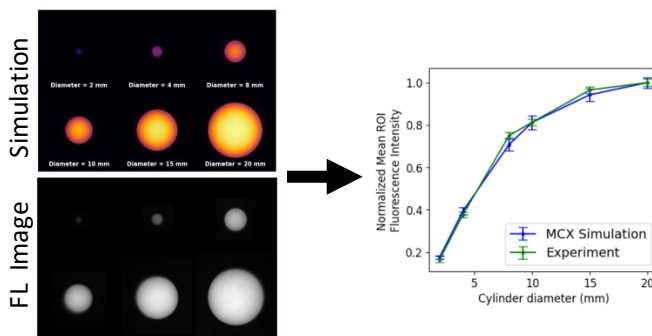


Customize phantoms with complex geometries or your logo!



## Optical Simulations for Accelerating Development

*Simulate, design, and iterate utilizing optical phantoms*



- Digital twin services: Simulate and manufacture phantoms to compare simulations versus real fluorescence images
- Test design perturbations *in silico*
- Simulate optical fluence & fluorescence
- Leverage well-characterized phantom optical properties
- Mimic real world geometries

## Resources

For detailed information on best practices for testing fluorescence imaging systems and the role our phantoms play in this process, please visit:

[shop.quelimaging.com/resources](https://shop.quelimaging.com/resources).



Contact us at: [info@quelimaging.com](mailto:info@quelimaging.com)