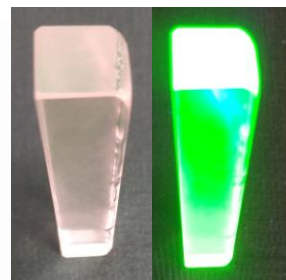


Discover our range of **bulk fluoride glasses**:

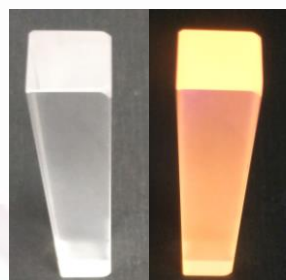
LVF provides any kind of bulk fluoride glasses such as parallelepipeds, ribbons, rods or tubes, prisms... Those bulks are **homogeneously doped or co-doped with rare earths** (Er, Pr, Ho, Tm, Dy, Ho/Tm, Er/Pr, Pr/Yb...) depending on your requirements. Thanks to **low phonon energy** and **high transparency from UV to mid-IR**, a lot of active transitions are accessible in our glasses. They work in **UV, visible, near infrared** and **mid-infrared** ranges. As solid and robust materials, they replace advantageously liquid cells.

Main applications

- Calibration of the spectral response of spectrometers (fluorescence intensity or absorption spikes at specific wavelengths, UV to VIS light conversion)
- Calibration of imagers (fluorescence intensity)
- Visualization of NIR laser beams (NIR to VIS light conversion)
- Extension of sensitivity of silicium detectors (CCD, CMOS,...) in the UV spectrum (UV to VIS light conversion)



Er doped glass fluorescence under UV light excitation



Eu doped glass fluorescence under UV light excitation

Typical bulk specifications

Rare earth concentration (molar content) Up to 100 000 ppm +/- 100 ppm

POLISHING	STANDARD GRADE	HIGH GRADE
Thickness tolerance	+/- 100 µm	+/- 10 µm
Width tolerance	+/- 200 µm	+/- 50 µm
Surface roughness (*)	70 Angström RMS	50 Angström RMS
Defects in polished surface(*)	-	20/10 Scratch/Dig

(*) other grades available upon request

CUSTOMIZE your own bulks

- Specifications**
- Doping/ co-doping
 - Shape/size
 - Polishing grade

Fluorescence and wavelength calibration

If you have a special request, please contact our experts!

