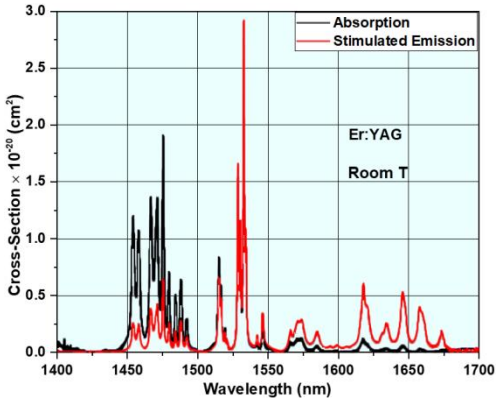
Er:YAG

Er:YAG is an excellent laser crystal which lasers at 2940 nm with a laser wavelength of 2.94 μm. This band is at the hydroxyl absorption peak which can be strongly absorbed by biological tissues. So it widely applies to medical area.

Absorption curve of Er:YAG



Main features:

- Excellent optical quality
- High output and damage thresholds
- High efficiency slope and low scattering loss
- High doping concentration
- Excellent thermal and optical properties

Typical applications:

- Glaucoma Surgery
- 2940 nm laser penetrating keratoplasty
- Plastic Surgery and Dentistry

Standard Products

Model	Diameter (mm)	Length (mm)	Doping (%)	Edge of the end
E-Y-301	3	53	0.9	0/0
E-Y-302	3	65	0.8	0/0
E-Y-303	3	65	1.1	0/0
E-Y-401	4	65	0.8	3/3 Parallel
E-Y-402	4	65	1.1	3/3 Parallel

For more information please visit www.voyawave.com

Technical Parameters

Names of Parameters	Values & Ranges
Size tolerance	Diameter: +0.000"/-0.002", Length: ± 0.02"
Clear aperture	> 95%
Surface quality	10/5
Flatness	λ/8@633nm
Wavefront distortion	≤ λ0.125@1064nm
Parallelism	≤ 10 arc sec
Perpendicularity	≤ 5 arc min
Doping concentration	~50%
Anti-reflection membrane system	≤ 0.25% (@2940nm)
Quality warranty period	1 year (under normal use)

See appendix P34 for more information