

# Indocyanine Green

Cat.# 08263

## TECHNICAL DATA SHEET 1018

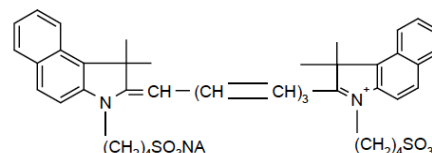
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**Synonym:** 2-[7-[1,3-dihydro-1,1-dimethyl-3-(4-sulfobutyl)-2H-benz[e]indol-2-ylidene]-1,3,5-heptatrienyl]-1,1-dimethyl-3-(4-sulfobutyl)-1H-benz[e]indolium hydroxide, inner salt, sodium salt; Indocyanine Green, Cardiogreen, Foxgreen

**CAS #:** 3599-32-4

**Chemical Formula:** C<sub>43</sub>H<sub>47</sub>N<sub>2</sub>O<sub>6</sub>S<sub>2</sub>·Na

**Structure:**



**MW:** 774.97

**Appearance:** Dark green crystals

### Lasering Wavelength

Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
940		FL <sup>99</sup>	DMSO	1 x 10 <sup>-4</sup>	795 <sup>S</sup>	833 <sup>S</sup>
863	846-907	Nd:YAG(532) <sup>53</sup>	DMSO		786 <sup>E</sup>	
903		Nd:YAG→C720(700) <sup>66</sup>	DMSO	2 x 10 <sup>-4</sup>	778 <sup>W</sup>	
913	(bb)	Nd:YAG(532) <sup>101</sup>	DMSO	5 x 10 <sup>-4</sup>	800 <sup>W/LO</sup>	
887	872-935	N <sub>2</sub> (337) <sup>111</sup>	DMSO	1.3 x 10 <sup>-3</sup> (#08263) 1.3 x 10 <sup>-3</sup>		
908	884-930	N <sub>2</sub> (337) <sup>90</sup>	DMSO			
910	884-947	N <sub>2</sub> (337) <sup>183</sup>	DMSO	40mg/20ml		
915	879-943	N <sub>2</sub> (337) <sup>111</sup>	DMSO	1.67 x 10 <sup>-3</sup>		
915	885-947	N <sub>2</sub> (337) <sup>111</sup>	DMSO	2.5 x 10 <sup>-3</sup>		
870	833-937	Ruby(694) <sup>133</sup>	DMSO	1 x 10 <sup>-4</sup>		

DMSO = Dimethylsulfoxide; e = ethanol; LO = Amonyx LO; s = DMSO; w = water

### REFERENCES:

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- Sixteen New Infrared Laser Dyes Excited by a Simple, Linear Flashlamp, J.P. Webb, F.G. Webster and B.E. Plourde, IEEE J., Quantum Electron., QE11, 114 (1975)
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- Thermo Laser Science, 26 Landsdowne Street, Cambridge, MA 02139