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LDS 751

Synonym: Styryl 8*

Catalog No.: 07510

MW: 472

Appearance: Dark green crystals

Lasing Wavelength		Pump Source (nm)	Solvent	Concentration (molar)	Abs λ -max	Fl λ -max	% CE*
Max. (nm)	Range (nm)						
743	715-779	Nd:YAG(532) ¹¹⁰	Methanol	3×10^{-4}	542 ^m	700 ^m	11
744	712-782	Nd:YAG(532) ²³⁹	Ethanol	3.2×10^{-4}			--
750	714-790	Nd:YAG(side-p,532) ⁵⁷	Methanol	3.4×10^{-4} (osc),			12
754	714-792	Nd:YAG(end-p,532) ⁵⁷	Methanol	3.4×10^{-4} (osc), 4.5×10^{-5} (amp)			7
764	733-802	Nd:YAG(532) ²³⁹	DMSO	3.2×10^{-4}			--
780	740-820	Nd:YAG(532) ¹⁵¹	DMSO				--
	700-812	Ar(m-l,514) ¹³⁶	PC/EG,15/85	2.0×10^{-3}			11
754	730-796	Ar(SF) ¹⁷⁴	EPH	2×10^{-3}			--
756	710-850	Ar(bb) ⁶⁸	PC/EG,1/4	3.4×10^{-3}			--
756	720-840	Ar(SF) ⁶⁸	PC/EG,1/4	3.4×10^{-3}			--
762	715-830	Ar(514) ¹⁵²	PC/EG,15/85	1.2×10^{-3}			9-11
764	731-806	Ar ¹⁷⁴	EPH	2×10^{-3}			--
765	715-840	Ar(all line) ^{17,150}	PC/EG,15/85	2×10^{-3}			14
772	711-845	Ar ^{127b}	PC/EG,15/85	1.2×10^{-3}			--

DMSO = dimethylsulfoxide; EG = ethylene glycol; PC = propylene carbonate; m = methanol

REFERENCES:

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68. Coherent Inc., 3210 Porter Dr., Palo Alto, CA 94304
110. Lumonics Inc., 105 Schneider Road, Kanata, (Ottawa), Ontario, Canada K2K 1Y3
127. a. Cw Operation of Laser Dyes Styryl-9 and Styryl-11, J. Hoffnagle, L. Ph. Roesch, N. Schlumpf and A. Weis, *Optics Commun.*, 42, 267 (1982); b. K. Kato, see Reference 5 in 127 a ; c. K. Kato, unpublished results.
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150. Styryl 8 Performance in a Model 375B Dye Laser, T. Gray, Spectra-Physics Memo No. 84-4, 1984
151. Nd:YAG Pumped LDS 751, K. Holtzclaw, private commun., 1985
152. Argon (514) Pumped LDS 751, J. Blazy, private commun., 1984. Jet Stream dye Laser with three mirror standing wave cavity, CR Oxazine mirror set, with 1-3% output coupler. No degradation after 100 watt-hours operation pumping with 4.5W.
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239. P. Jauernik, private commun., Sirah Laser- und Plasmatechnik, 2003.

For a current list of biology, biological stain, or biochemistry references for LDS 751 from PubMed, click on the following link:

[LDS 751](#) ("Styryl 8" is not in the PubMed database as of May 2006)

NOTES:

* Exciton's Styryl 8 is not the same as Lambda Physik's Styryl 8

CE = Conversion efficiency reported by the manufacturer or literature sources. See reference (numbers indicated under pump source column)

-- = not reported or not available