

# Norlab Inc. - *Fluorescent Yellowgreen* Tracer Dye Products

## Technical Data Sheet

General Properties	Liquids	Powders	Strips	Tablets	Tracer Dye Bag	Donuts
Dye Family	Xanthene	Xanthene	Xanthene	Xanthene	Xanthene	Xanthene
CAS Number	518-47-8	518-47-8	518-47-8	518-47-8	518-47-8	518-47-8
Detection Method	Visual, Ultraviolet, Fluoremetric Equip	Visual, Ultraviolet, Fluoremetric Equip	Visual, Ultraviolet, Fluoremetric Equip	Visual, Ultraviolet, Fluoremetric Equip	Visual, Ultraviolet, Fluoremetric Equip	Visual, Ultraviolet, Fluoremetric Equip
Visual Detectability (Note: Varies with field conditions)	Visual/UV <100ppm	Visual/UV <100ppm	Visual/UV <100ppm	Visual/UV <100ppm	Visual/UV <100ppm	Visual/UV <100ppm
Maximun Absorbance Wavelength* (Spectrophotometer)	490 nm	490 nm	490 nm	490 nm	490 nm	490 nm
**If checking in the visual spectrum, simply set the spectro for the "Absorbance Wavelength" for detection of peak wavelength.						
Excitation Wavelength**	360 nm	360 nm	360 nm	360 nm	360 nm	360 nm
Emission Wavelength**	516 nm	516 nm	516 nm	516 nm	516 nm	516 nm
**If utilizing a black light or fluorometer, these lights will emit at 360 nm. At this "Excitation Wavelength", if the dye is present, I will give a peak at the respective "Emission Wavelength" listed.						
Dispersement Time	Immediate	< 3-8 minutes	< 2-5 minutes	< 3- 8 minutes	< 3-8 minutes	2-4 hours
Aqueous Appearance	YellowGreen	YellowGreen	YellowGreen	YellowGreen	YellowGreen	YellowGreen
Dry Appearance	Liquid-Reddish/Brown	Fine Powder-Reddish Brown	Strip-Greenish/Orange	Tablet-Reddish-Brown speckled	Powder in Water Soluble Bag-Reddish-Br	Wax Donut-Orange
Absorption Resistance	Most Suspended Matter	Most Suspended Matter	Most Suspended Matter	Most Suspended Matter	Most Suspended Matter	Most Suspended Matter
Dosage (Note: Visible to Naked Eye)	1 oz Liquid Dye : 800 gallons	1 lb Dye Powder : 12,000 gallons	1 Dye Strip : 500 gallons	1 Dye Tablet : 80 gallons	1 Tracer Dye Bag : 3,000 gallons	1 Dye Donut : 8,000 gallons
Dosage (Note: Visible through Instrumentation)	1 oz Liquid Dye : 8,000 gallons	1 lb Dye Powder : 120,000 gallons	1 Dye Strip : 5,000 gallons	1 Dye Tablet : 800 gallons	1 Tracer Dye Bag : 30,000 gallons	1 Dye Donut : 80,000 gallons
pH (Note: No significant change between 8.5-11 pH)	8.6 +/- 0.5 @ 25° C	8.6 +/- 0.5 @ 25° C	8.6 +/- 0.5 @ 25° C	8.6 +/- 0.5 @ 25° C	8.6 +/- 0.5 @ 25° C	8.6 +/- 0.5 @ 25° C
Specific Gravity	1.06 +/- 0.5 @ 25° C					
BOD (Biochemical Oxygen Demand) Studies	Dye biodegradability with 65% of the available oxygen consumed in 7 days.					

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CAUTION: As with any dye or chemical, the use of gloves & goggles is recommended when handling this product. Contact with skin may cause irritation &/or staining. Keep out of reach for children & pets.

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