

Norlab Inc. - *Fluorescent Red Tracer Dye Products*

Technical Data Sheet

General Properties	Liquids	Powders	Strips	Tablets	Tracer Dye Bag	Donuts
Dye Family	Rhodamine WT	Rhodamine WT	Rhodamine WT	Rhodamine WT	Rhodamine WT	Rhodamine WT
CAS Number	3520-42-1	3520-42-1	3520-42-1	3520-42-1	3520-42-1	3520-42-1
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 < 100ppb	Visual/UV < 100ppb	Visual/UV < 100ppb	Visual/UV < 100ppb	Visual/UV < 100ppb	Visual/UV < 100ppb
Maximun Absorbance Wavelength* (Spectrophotometer)	556 nm	556 nm	556 nm	556 nm	556 nm	556 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**	577 nm	577 nm	577 nm	577 nm	577 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	< 8 minutes	< 5 minutes	< 8 minutes	< 8 minutes	3-5 hours
Aqueous Appearance (Depends on concentration)	Red to Bright Pink	Red to Bright Pink	Red to Bright Pink	Red to Bright Pink	Red to Bright Pink	Red to Bright Pink
Dry Appearance	Liquid-Dark Red	Fine Powder-Dark Red	Strip-Dark Red	Tablet-Dark Red	Fine Powder in Water Soluble Bag-dark Red	Wax Donut-Dark Red
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)	10.5 +/- 0.5 @ 25° C	10.5 +/- 0.5 @ 25° C	10.5 +/- 0.5 @ 25° C	10.5 +/- 0.5 @ 25° C	10.5 +/- 0.5 @ 25° C	8.6 +/- 0.5 @ 25° C
Specific Gravity	1.15 +/- 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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