



# Macsen Laboratories

Manufacturer of Fine Chemicals & Pharmaceuticals

## PRODUCT SPECIFICATION SHEET

### FLUORESCEIN SODIUM USP / IP (ACID YELLOW 73)

<b>Name of Product</b>	<b>FLUORESCEIN SODIUM USP</b>
<b>SYNONYMS</b>	<b>URANINE, SOAP YELLOW</b>
<b>C.I. NO.</b>	<b>45350</b>
<b>C.I. NAME</b>	<b>ACID YELLOW 73 OR URANINE</b>
<b>CAS No.</b>	<b>518-47-8</b>
<b>CHEMICAL NAME</b>	<b>DI SODIUM SALT OF FLUORESCEIN</b>
<b>FORMULA</b>	<b>C<sub>20</sub> H<sub>10</sub> O<sub>5</sub> Na<sub>2</sub></b>
<b>SPECIFICATION</b>	<b>PRODUCT PASSES USP SPECIFICATIONS</b>
<b>SPECIFICATIONS AS UNDER</b>	
<b>DESCRIPTION</b>	<b>AN ORANGE RED POWDER, ODOURLESS.</b>
<b>IDENTIFICATION TEST</b>	<b>PASSES TESTS A,B &amp; C AS PER USP</b>
<b>SOLUBLE SUBS. IN CHLOROFORM</b>	<b>NOT MORE THAN 0.10 AT 480 nm</b>
<b>WATER ( MOISTURE)</b>	<b>5.0% max</b>
<b>RESORCINOL</b>	<b>SPOT OBTAINED WITH SUBS. NOT MORE INTENSE THAN MAIN SPOT OBTAIN WITH RESORCINOL SOLN.</b>
<p>By Tlc method, spot of soln. prepd by dissolving 1gm subs in 10m ml of water, adding 10 ml of 0.6M hydrochloric acid, centrifuge and use supernatant liquid 5 micro litre. compare with spot of 0.025% soln of resorcinol in water. Using 60 volume hexene &amp; 40 vol.ethyl acetate as mobile phase.</p>	
<b>APPARENT SUBSTANCES (Related substances.)</b>	<b>A main spot, not more than one secondary spot More intense than the main one.</b>
<b>pH of 2% SOLUTION</b>	<b>BETWEEN 7 TO 9</b>
<b>ZINC</b>	<b>ABSENT</b>
<b>CHLORIDE</b>	<b>NOT MORE THEN 0.33%</b>
<b>SULPHATE</b>	<b>NOT MORE THAN 1.2%</b>
<b>CONTENT OF TOTAL DYE (PURITY)</b>	<b>MINIMUM 95.0% On dry basis.</b>
<b>ABSORBTION MAX.</b>	<b>AT 490 TO 492 NM</b>
<b>ABSORPTIVITY (A1%/1CM AT <math>\lambda_{max}</math>)</b>	<b>1900 - 2000</b>
<b>PACKING &amp; STORAGE</b>	<b>PACKED IN WELL CLOSED CONTAINERS</b>

