

# ANALYTICAL SPECIFICATION

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**Fluorescein isothiocyanate isomer I**  
Catalogue No. FITC

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**Description:** A fluorescent dye ( $E_{x_{max}} = 492 \text{ nm}$ ;  $E_{m_{max}} = 520 \text{ nm}$ ) with a molecular weight of 389.39 that is used to label antibodies and other proteins. Supplied as a yellow to orange powder which is soluble in DMSO and DMF.

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TEST/CHARACTERISTIC	LIMITS	TEST METHOD
<b>Appearance, colour</b>	Yellowish to orange	02037
<b>Appearance, form</b>	Powder	02037
<b>Heavy Metals</b>	$\leq 5 \text{ ppm}$	Based on USP
<b>Water content</b>	$\leq 0.5\%$	Karl Fisher
<b>Purity</b>	$\geq 97\%$	HPLC

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