

TLC Stains Recipes

[Anisaldehyde]	Anisaldehyde	36.8mL
	AcOH	15mL
	conc.H ₂ SO ₄	50mL
	EtOH	1284mL
	H ₂ O	68mL

[KMnO ₄]	H ₂ O	900mL
	K ₂ CO ₃	60g
	NaOH	1.5g
	KMnO ₄	9g

[Cerium Molybdate (CAM; Hanessian's stain)]

Ce(SO ₄) ₂	10g
(NH ₄)Mo ₇ O ₂₄ · H ₂ O	50g
H ₂ O	900mL
conc.H ₂ SO ₄	100mL

[Phosphomolybdic Acid Solution]	phosphomolybdic acid	5g
	95% EtOH	100mL

[Ninhydrin Soluton]	ninhydrin	0.3g
	n-butanol	100mL
	AcOH	3mL

[2,4-DNP]	2,4-dinitrophenylhydrazine	12g
	H ₂ SO ₄	60mL
	H ₂ O	80mL
	95%EtOH	200mL

[Vanillin Solution]	vanillin	5g
	conc. H ₂ SO ₄	1mL
	95%EtOH	100mL

[Iodoplatinate]	PtCl ₂	0.5g
	I ₂	4.8g
	conc.HCl	5mL
	H ₂ O	250mL