

TLC ORGANIC (NG)

PLATE:	<u>Standard</u> Silica Gel GHL	<u>Reversed-Phase</u> Analtech HPTLC-RPS
SOLVENT:	CCl ₄ : DCE (4:1)	Acetonitrile : H ₂ O
STANDARD:	Double Base Smokeless Powder (Working LDL is 30ng)	
VISUALIZATION:	1. Remove plate and allow to air dry 2. Spray with ethanolic KOH (2% KOH in 95% EtOH) 3. Place in 100° oven for 5-10 min. 4. Spray with Greiss reagent	

TLC - SUGAR & CHLORATE

PLATE:	Silica Gel GHL
SOLVENT SYSTEM:	N-Butanol : Acetic(glacial) : water (10:9:1)
STANDARDS:	Sucrose, Chlorate, Sucrose & Chlorate (5ug/ul)
VISUALIZATION:	Sucrose and Chlorate 1. Remove plate and allow to air dry. 2. Spray with a mixture of DPA (1 g), aniline(1ml), & conc. Phosphoric acid(10ml) In 100 ml Acetone. 3. Heat plate for 5-10 min. In 100° oven.

TLC INORGANIC

PERCHLORATE/CHLORATE/NITRATE

PLATE: Analtech "Avicel" (microcrystalline cellulose) 5 X 20 cm

SOLVENT SYSTEM: Acetone/N-Butanol/Pyridine/NH₄OH (conc.)/H₂O
(15:12:12:4:1)

ANALYTES SPOTTED: Chlorate, Nitrate, Nitrite, Perchlorate-5ug ea.

VISUALIZATION: Spray with saturated aqueous solution of
2,6-Dichlorophenolindophenol (DCPIP)

Heat 2-3 min. At 100° C

RESULTS:

	<u>R_f</u>
Nitrate	0.30
Chlorate	0.53
Perchlorate	0.80