



PRODUCT SHEET

STARGEL Cocktail

Main Applications

Liquid scintillation counting of solids.

Packing

Order N°.	Description	Packing
ME-COC-SGC	Multi-purpose gellifying liquid scintillation cocktail	2 x 5 Liter plastic bottles in a box
ME-COC-SG05	Multi-purpose gellifying liquid scintillation cocktail	1 x 5 Liter plastic bottle in a box

Physical and chemical properties

Solvent : DIN

Flash point : 140 °C

Conditions of utilization

Recommended T of utilization: 17 – 21°C

Storage: Dry and dark, T<30°C

TECHNICAL INFORMATION

StarGel COCKTAIL



StarGel is a classical high flashpoint DIN based, biodegradable LSC cocktail specifically designed for suspension counting where the particulate matter is held in the gel phase. It is odourless and compatible with plastic vials. The cocktail shows very low quench with a tSIE of approximately 590 and a counting efficiencies of ~94% for C-14 and ~48% for H-3 under these conditions. It further shows a low background count rate of < 20 CPM in a 0 – 18.6 keV window (H-3). StarGel forms a stable gel with small amounts of water (2.3 – 2.5 mL per 10 mL StarGel) at 17° - 21°C. The cocktail contains NPEs and is thus not drain disposable.

Star Gel phase diagram with added water

ml water added to 10.0 ml Star Gel	17°C	21°C
0.00 ml	Clear	Clear
0.50 ml	Clear	Clear
1.00 ml	Clear	Clear
1.50 ml	Clear	Clear
1.60 ml	Unstable	Unstable
1.90 ml	Unstable	Unstable
2.00 ml	Gel	Gel
2.40 ml	Gel	Gel
2.50 ml	White gel	White gel
>2.50 ml	Unstable	Unstable