

HIDEX

LSC Cocktails

Hidex provides a full range of high performance liquid scintillation cocktails to give optimum performance with Hidex LSC counters. Our product range includes more than 20 cocktails, trapping agents, as well as tissue solubilizers. A majority of Hidex LSC cocktails are NPE-free.

Vial based counters such as the Hidex Triathler, Hidex 300 SL, Hidex 600 SLe, Hidex ULLA and other vial based counters are compatible with the AquaLight, MaxiLight, Gold Star and ProSafe cocktail series, which are specifically designed products for general beta counting, low-level applications, alpha/beta separation and filter counting.

Sample preparation is supported by CO₂ trapping agents and cocktails that are fully compatible with the Hidex 600 OX Oxidizer as well as other oxidizers and pyrolyzers. Tissue solubilizers are also available when samples require solubilization prior to counting.

Microplate readers such as the Hidex Sense Beta and all commercial plate scintillation counters are well suited to our PlateScint cocktails.

Flow counters can be used with cocktails that have been designed to work with the most commonly encountered eluents, including aqueous and organic gradients for flow applications.

Capacities with deionized water per 10 mL of cocktail at 20°C

Cocktail (10 mL)	Water uptake
AquaLight+	≥ 12 mL
AquaLight+ ULL, AquaLight Beta, Gold Star, Opti-PXE, PlateScint Max	≥ 10 mL
AquaLight NPE-Free, ProSafe LT+	≥ 10 mL
AquaLight AB, Gold Star Quanta, ProSafe HC+	≥ 9 mL
OX Tritium, ProSafe+	≥ 3 mL
ProSafe FC+, ProSafe TS+	≥ 1 mL

Select the **right cocktail** for your sample type and application



Why choose NPE-free cocktails?

- Nonyl Phenol Ethoxylates (NPEs) are surfactants used in most LSC cocktails on the market.
- When cocktails are disposed of in sewage treatment plants, the NPE chemicals are only partially degraded. If NPE metabolites end up in the water systems, they disrupt the endocrine system of fish and shellfish.
- For this reason, the use of NPEs is highly restricted in the EU as well as in many other countries. Future proof your assays by switching to NPE-free cocktails.

Hidex offers NPE-free cocktails for all LSC applications

	Product	Sample type/Application	Sales unit
Cocktails for Vial Based Counters NPE-FREE	AquaLight+ NPE Free	General purpose counting, low level ^3H , α/β -separation	5 L
	ProSafe+	General purpose counting	2 × 5 L
	ProSafe LT+	Counting of low level ^3H at low temperature	2 × 5 L
	ProSafe FC+	Filter counting, wet and dry filters	2 × 5 L
	ProSafe HC+	High capacity with acidic, alkaline and high ionic strength samples	2 × 5 L
	ProSafe TS+	Compatible with tissue solubilizers	2 × 5 L
	ProScint Gel+	Counting of suspended particles	1 L
	MaxiLight+	Organic samples, biofuels, dry filters, ^{222}Rn extractive method	1 L 5 L
Cocktails for Vial Based Counters, containing NPEs	AquaLight+	High performance cocktail for general purpose counting	1 L 5 L
	AquaLight Beta	General purpose counting and for alkaline solutions	5 L
	AquaLight AB	Optimal α/β -separation	1 L 5 L
	AquaLight+ ULL	Counting of ultra low level ^3H	5 L
	Gold Star	General purpose counting and for alkaline solutions	2 × 5 L
	Gold Star Quanta	General purpose counting and for α/β -separation	2 × 5 L
	Opti-PXE	PXE-based cocktail for general purpose counting	2 × 5 L
Cocktails for Oxidizers NPE-FREE	OX Radiocarbon	Trapping and counting of ^{14}C	1 L 4 × 2.5 L
	OX Tritium	Trapping and counting of ^3H	1 L 4 × 2.5 L
	OX BioTrap	Trapping of CO_2 from combusted biocarbon samples	0.5 L
	OX BioCount	Counting of ^{14}C , used together with OX BioTrap	0.5 L
	CarbonTrap	Trapping of CO_2 from combusted samples	1 L 4 × 2.5 L
	CarbonCount	Counting of ^{14}C , used together with CarbonTrap	4 × 2.5 L
Cocktails for Microplate Readers	PlateScint Max	Aqueous microvolume samples	1 L
	PlateScint O (NPE-Free)	Organic microvolume samples	1 L
Cocktails for Flow Counters	ProFlow G+ (NPE-Free)	Flow counting with most commonly used eluents and gradients	2 × 5 L
	ProFlow P+ (NPE-Free)	Flow counting with ammonium phosphate gradients	2 × 5 L
	Gold Star	Vial based counting and flow counting	2 × 5 L
Tissue Solubilizers	GoldiSol	Solubilizing tissue samples before counting, isopropyl alcohol based	0.5 L
	AquiGest	Solubilizing tissue samples before counting, aqueous based	0.5 L

Discover more:

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