



Hidex LSC Cocktails

Hidex provides high performance scintillation cocktails tested to give optimum performance with Hidex scintillation counters Hidex 300SL, Hidex 600SL and Hidex Triathler for aqueous, lipophilic, filter counting, alpha beta separation, general beta counting and low-level applications. Hidex offers the only comprehensive NPE free liquid scintillation cocktail selection in the world and continues to be the pioneer in NPE free products since the 2010's. We also offer the top-quality flow scintillation analyser cocktails.

Ordering Information

	Code	Name & brief description	Quantity
Next Generation NPE FREE Cocktails	461-016	AquaLight+ NPE Free for water samples	5 L
	461-003	MaxiLight+ for organic samples, fuels and Radon extractive method	1 L
	461-015		5 L
	PS+	ProSafe+ for general purpose counting	2 × 5 L
	PSFC+	ProSafe FC+ for filter counting	2 × 5 L
	PSHC+	ProSafe HC+ for high capacity	2 × 5 L
	PSTS+	ProSafe TS+ for tissue solubilisers	2 × 5 L
	PSBio+	ProSafe Bio+ for biological assays	2 × 5 L
	PSLT+	ProSafe LT+ for low level tritium counting	2 × 5 L
	PFG+	ProFlow G+ for flow counting	2 × 5 L
	PfP+	ProFlow P+ for flow counting with ammonium phosphate	2 × 5 L
	PSGel+	ProScint Gel+ for rigid gel counting	2 × 5 L
	PSRn/AB	ProSafe Rn/AB for radon extractive method	2 × 5 L
PSO+	ProSafe O+ for organic samples and Radon extractive method	2 × 5 L	
Conventional Cocktails containing NPEs	461-004	AquaLight+ for general purpose counting	1 L
	461-006		5 L
	461-007	AquaLight+ ULL for ultra low level tritium counting	5 L
	461-021	AquaLight AB for optimal a/b separation	1 L
	461-020		5 L
	461-035	AquaLight Beta for general purpose counting and alkaline	5 L
	GS1	Gold Star for general purpose counting and alkaline media	2 × 5 L
	GSQ1	Gold Star Quanta for high capacity and high efficiency	2 × 5 L
GF1	Gold Flow for flow counting with high capacity	2 × 5 L	
GSLT2	Gold Star LT2 for low level tritium counting	2 × 5 L	
Oxidiser Reagents	461-071	Oxidizer 600 OX Radiocarbon for Hidex Oxidizer	1 L
	461-073	Oxidizer 600 OX Tritium for Hidex Oxidizer	1 L
	CC/10	CarbonCount for counting together with CarbonTrap	4 × 2.5 L
	CT/10	CarbonTrap for trapping CO ₂	4 × 2.5 L
	TC+/10	TritiumCount+ for trapping and counting of tritium	4 × 2.5 L
	EP/5	CarbonCount and CarbonTrap	2.5 L each
	EP/10	CarbonCount and CarbonTrap	2 × 2.5 L each
	C14Count	CT/CC mixture	4 × 2.5 L
Tissue Solubilisers	GTS05	GoldiSol	500 mL
	ATS05	AquiGest	500 mL
Plate Counting Cocktails	PSHE	PlateScint HE for high efficiency counting	1 L
	PSMax	PlateScint Max for maximum capacity counting	1 L
	PSO	PlateScint O for organic media	1 L

Hidex AquaLight+

Hidex AquaLight+ is a general-purpose high safety scintillation cocktail for aqueous and non-aqueous samples, for both general beta counting and alpha-beta separation applications. AquaLight+ is a DIN based cocktail capable of handling a broad range of solutes, combining high counting efficiency and low background with a very high level of sample acceptance, particularly for high ionic strength solutes.

Properties

- Water-dissolving DIN cocktail for general beta counting and α/β separation applications
- High sample capacity, low background and high counting efficiency
- Solubility up to 12 ml water in 10 ml cocktail
- Compatible with urine samples and samples with high mineral acid concentrations.
- Good α/β -counting properties
- No diffusion through plastic vials ensures stable repeatable counting
- High flash point of $\sim 140^{\circ}\text{C}$ increases safety
- REACH regulations classify NPEs used in this cocktail as SVHC's (Substances of Very High Concern) and therefore this cocktail is available for research use only.
- Disposal by incineration only



Ordering Info

Cat. No.	461-004	AquaLight+	1 L plastic bottle
Cat. No.	461-006	AquaLight+	5 L plastic bottle

Storage

Store at or slightly below room temperature ($15-25^{\circ}\text{C}$) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082, 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (Contains Di-isopropylnaphthalene isomers, 4-Nonyl phenol, branched ethoxylated)
(IATA DGR: NOT RESTRICTED AS PER SPECIAL PROVISION A197)

Hidex AquaLight+ Ultra Low Level

Hidex AquaLight+ Ultra low-level cocktail is water-dissolving DIN based cocktail with highest performance for low level tritium counting, high sample capacity, ultra-low background and high efficiency at low temperatures.

Properties

- Water-dissolving high-performance cocktail for low level tritium counting
- High sample capacity, ultra low background and high counting efficiency at low temperatures
- Solubility up to 12 ml water in 10 ml cocktail
- Stable at temperatures down to 12°C for sub-ambient counting
- Compatible with urine samples and samples with high mineral acid concentrations.
- Good α/β -counting properties
- No diffusion through plastic vials ensures stable repeatable counting
- High flash point of ~140°C increases safety
- REACH regulations classify NPEs used in this cocktail as SVHC's (Substances of Very High Concern) and therefore this cocktail is available for research use only.
- Disposal by incineration only



Ordering Info

Cat. No. 461-007 AquaLight+ Ultra Low Level 5 L plastic bottle

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082, 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (Contains Di-isopropylnaphthalene isomers, 4-Nonyl phenol, branched ethoxylated)
(IATA DGR: NOT RESTRICTED AS PER SPECIAL PROVISION A197)

Hidex AquaLight+ NPE Free

Hidex AquaLight+ NPE Free is a general-purpose cocktail for aqueous beta samples with high sample capacity and low background. The cocktail contains no Nonyl Phenyl Ethoxylates (NPEs).

Properties

- NPE-free
- Water-dissolving DIN cocktail for general beta counting
- High sample capacity and low background
- Solubility up to 10 ml water in 10 ml cocktail
- No diffusion through plastic vials ensures stable repeatable counting
- High flash point of ~140°C increases safety

HIDEX AquaLight+ NPE Free

FOR LABORATORY RESEARCH USE ONLY

General purpose cocktail for aqueous samples with high sample capacity and low background.

Product information: Does not contain NPEs.

KEEP TIGHTLY CLOSED. PROTECT FROM SUNLIGHT. STORE AT OR SLIGHTLY BELOW ROOM TEMPERATURE.

DANGER

CATALOGUE NO. 461-016
CONTENTS (LITERS): 5

Ordering Info

Cat. No. 461-016 AquaLight+ NPE Free 5 L plastic bottle

Storage

Store at or slightly below room temperature (15–25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR/IMDG: Not restricted as per special provision 375

IATA: Not restricted as per special provision A 197

Hidex AquaLight AB

Hidex AquaLight AB is a water-dissolving DIN based cocktail for alpha-beta separation applications, such as direct detection of Rn-222 in water or gross alpha-beta measurements with good alpha-beta separation efficiency. Solubility up to 6.5 mL water in 13.5 mL cocktail.

Properties

- Water-dissolving DIN cocktail for α/β separation applications
- High alpha-beta separation efficiency
- Solubility up to 6.5 ml water in 13.5 ml cocktail
- Good α/β -counting properties
- No diffusion through plastic vials ensures stable repeatable counting
- No REACH regulations classify NPEs used in this cocktail as SVHC's (Substances of Very High Concern) therefore this cocktail is available for research use only.
- Disposal by incineration only

HIDEX AquaLight AB

AquaLight AB is high performance DIN based LSC cocktail for aqueous and non-aqueous samples. Accepts up to 6.5 ml water in 13.5 ml cocktail at 20 °C Optimized for α/β separation.

Product information: Odourless, colour and quench resistant. Low photo and chemiluminescence.
Contains: Diisopropyl naphthalene isomers.

KEEP TIGHTLY CLOSED. PROTECT FROM SUNLIGHT. STORE AT OR SLIGHTLY BELOW ROOM TEMPERATURE.

DANGER  

CATALOGUE NO. 461-021 461-020
CONTENTS (LITER): 1 5

FOR LABORATORY RESEARCH USE ONLY

Ordering Info

Cat. No.	461-021	AquaLight AB	1 L plastic bottle
Cat. No.	461-020	AquaLight AB	5 L plastic bottle

Storage

Store at or slightly below room temperature (15–25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082, 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (Contains Di-isopropyl naphthalene isomers, 4-Nonyl phenol, branched ethoxylated)
(IATA DGR: NOT RESTRICTED AS PER SPECIAL PROVISION A197)

Hidex AquaLight Beta

AquaLight Beta is DIN based multi-purpose LSC cocktail for aqueous and nonaqueous samples. Specifically designed for high sample capacity with high efficiency.

Properties

- Optimized for general β -counting
- Accepts up to 10 ml of dilute aqueous samples in 10 ml cocktail at 20 °C
- Extremely resistant to chemiluminescence and is therefore suitable for use with the solubilised samples
- REACH regulations classify NPEs used in this cocktail as SVHC's (Substances of Very High Concern) and therefore this cocktail is only available for research use only.



Ordering Info

Cat No. 461-035 AquaLight Beta 5 L plastic bottle

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082, 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (Contains Diisopropyl naphthalene isomers, 4-Nonyl phenol, branched ethoxylated)
(IATA DGR: NOT RESTRICTED AS PER SPECIAL PROVISION A197)

Hidex MaxiLight+

Hidex MaxiLight+ cocktail is a lipophilic, unquenched, NPE-free, DIN based cocktail with highest counting efficiency for organic and non-aqueous samples like bio-oils, dry samples, dried filters and for extraction of Rn-222 from water. MaxiLight+ has best alpha-beta separation efficiency. Apart from extractive method, the MaxiLight+ cannot be used for water samples or samples with any moisture.

Properties

- NPE free
- High performance cocktail for organic samples, biofuels and dried filters
- Excellent α/β -counting properties
- Optimum for Rn-222 counting with extractive method
- Does not accept any water or moisture
- Safe
- High flash point
- Odourless
- Low permeability through plastic vials



HIDEX MaxiLight+

High performance cocktail for organic samples, bio-fuels and counting of dried filters. Excellent α/β -counting properties and optimum for Rn-222 counting with extractive method. Does not accept any water or moisture.

Product information: Specifically designed for high efficiency sample counting of organic samples. Safe, odourless, high counting efficiency, low permeation through plastic vials.

Contains: No NPE's (Nonylphenol Ethoxylates) EU WFD 2000/60/EC.

KEEP TIGHTLY CLOSED. PROTECT FROM SUNLIGHT. STORE AT OR SLIGHTLY BELOW ROOM TEMPERATURE.

DANGER  

CATALOGUE NO. 461-003 461-015
CONTENTS (LITER): 1 5

FOR LABORATORY RESEARCH USE ONLY

Ordering Info

Cat. No.	461-003	MaxiLight+	1 L plastic bottle
Cat. No.	461-015	MaxiLight+	5 L plastic bottle

Storage

Store at or slightly below room temperature (15–25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S (Di-isopropyl-naphthalene isomers)

(IATA DGR: NOT RESTRICTED AS PER SPECIAL PROVISION A197)

Oxidizer 600 OX Radiocarbon

Oxidizer 600 OX Radiocarbon is a complete liquid scintillation cocktail for trapping and counting radioactive carbon dioxide. This cocktail is designed for the Hidex 600 OX Oxidizer. The cocktail contains a carbon dioxide absorber that effectively traps CO₂ into the cocktail. The cocktail contains also scintillator and, therefore, the combusted sample in the cocktail is instantly ready for the LSC measurement.

Properties

- NPE free
- 1 ml of cocktail absorbs 2.8 mmol of carbon dioxide
- High counting efficiency and low background
- Effective carbon dioxide absorption by 3-methoxypropylamine
- Contains scintillator for instant C-14 measurement
- Disposal by incineration only

HIDEX Oxidizer 600 OX Radiocarbon

A complete liquid scintillation cocktail for trapping and counting radioactive carbon dioxide. To be used with Hidex 600 OX Oxidizer.

Product information: 1 ml of cocktail absorbs 2.8 mmol of carbon dioxide.

FOR LABORATORY RESEARCH USE ONLY

KEEP TIGHTLY CLOSED. PROTECT FROM SUNLIGHT. STORE AT OR SLIGHTLY BELOW ROOM TEMPERATURE.

DANGER

CATALOGUE NO. 461-071

Ordering Info

Cat. No. 461-071 Oxidizer 600 OX Radiocarbon 1 L

Delivered in glass bottles, bottle size depends on order volume and transport method.

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (3-methoxypropylamine, 1,2,4-trimethylbenzene, isobutyl alcohol)

ENVIRONMENTALLY HAZARDOUS)

Oxidizer 600 OX Tritium

Oxidizer 600 OX Tritium is a complete liquid scintillation cocktail for trapping and counting tritium-water from combustion systems. This cocktail is an NPE free pseudocumene based LSC cocktail especially for the Hidex 600 OX Oxidizer. The cocktail is designed to accept water from sample oxidisers without foaming or gelling and produces a stable microemulsion suitable for LSC counting.

Properties

- NPE free
- High volume water capacity, accepts up to 6 ml of water into 10 ml of cocktail
- High tritium counting efficiency
- No foaming
- Disposal by incineration only

HIDEX Oxidizer 600 OX Tritium

A liquid scintillation cocktail for counting tritium produced from sample oxidation. To be used with Hidex 600 OX Oxidizer.

Product information: Accepts up to 6 ml of water into 10 ml of cocktail. NPE free.

Storage information: Keep tightly closed. Protect from sunlight. Store at or slightly below room temperature. Keep away from heat.

**KEEP AWAY FROM HEAT
KEEP TIGHTLY CLOSED. PROTECT FROM SUNLIGHT. STORE AT OR SLIGHTLY BELOW ROOM TEMPERATURE.**

DANGER

CATALOGUE NO. 461-073

FOR LABORATORY RESEARCH USE ONLY

Ordering Info

Cat. No. 461-073 Oxidizer 600 OX Tritium 1 L

Delivered in glass bottles, bottle size depends on order volume and transport method.

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN1993 FLAMMABLE LIQUID, N.O.S. (1,2,4-Trimethylbenzene), ENVIRONMENTALLY HAZARDOUS

CombustionCount

A mix of CarbonTrap and CarbonCount that traps ^{14}C at the combustion system and can then be transferred to the LSC counter for counting.

Suitable for use in commercial oxidizers such as the PerkinElmer Sample Oxidiser and the Raddec Pyrolyser. For Hidex 600OX Oxidizer, refer to the optimized Hidex 600OX Radiocarbon all-in-one trapping cocktail.

Ordering Info

Cat. No. C14Count CT/CC mix for Combustion 4 × 2.5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

CarbonTrap

This is a high-capacity carbon dioxide absorber used to trap radioactive carbon dioxide produced in sample oxidisers and pyrolysers. 1 ml absorbs 4.8 millimoles of carbon dioxide.

Because CarbonTrap is both corrosive & flammable shipping outside the UK falls under ADR & IATA Dangerous Goods and maximum inner package allowed is 500mL

Suitable for use in commercial oxidizers such as the PerkinElmer Sample Oxidiser and the Raddec Pyrolyser. For Hidex 600OX Oxidizer, refer to the optimized Hidex 600OX Radiocarbon all-in-one trapping cocktail.

Flash point of approximately 27°C

Ordering Info

Cat. No. CT/10 CarbonTrap 4 × 2.5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN2734.

ADR, ADN, IMDG, IATA

Amines, liquid, corrosive, flammable, N.O.S (3-Methoxypropylamine).

CarbonCount

CarbonCount is a pseudocumene based cocktail specially formulated for counting radio-carbon dioxide trapped in CarbonTrap. Flash point of approximately 50°C

Suitable for use in commercial oxidizers such as the PerkinElmer Sample Oxidiser and the Raddec Pyrolyser. For Hidex 600OX Oxidizer, refer to the optimized Hidex 600OX Radiocarbon all-in-one trapping cocktail.

Flash point of approximately 50°C.

Ordering Info

Cat. No. CC/10 CarbonCount 4 × 2.5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN1993.

ADR

1993 FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene),
ENVIRONMENTALLY HAZARDOUS

IMDG

FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene) MARINE POLLUTANT

IATA

FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene).

TritiumCount+

TritiumCount+ is an NPE free pseudocumene based LSC cocktail for tritium trapping after combustion.

For Hidex 600OX Oxidizer, refer to the specifically optimized Hidex 600OX Tritium all-in-one trapping cocktail instead.

TritiumCount+ has been specifically developed to work in the PerkinElmer Sample Oxidizer, the Zinsser Automatic Oxidizer, the Harvey Biological Sample Oxidizer and the Raddec Pyrolyzer.

TritiumCount+ is specially designed to accept water from sample oxidisers without foaming or gelling and produces a stable microemulsion suitable for LSC counting, irrespective of which instrument is used.

TritiumCount+ can accept up to 6.0 ml pure water in 10.0mL cocktail with exceptional Tritium counting efficiency.

This high-volume water capacity, coupled with no foaming and high Tritium counting efficiency, makes TritiumCount+ ideal for use in all commercially available sample oxidizers & pyrolysers.

Ordering Info

Cat. No. TC+/10	TritiumCount+	4 × 2.5 L
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Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN1993.

ADR

1993 FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene),
ENVIRONMENTALLY HAZARDOUS

IMDG

FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene) MARINE
POLLUTANT

IATA

FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene).

Gold Star Quanta

Very high Tritium efficiency (55% unquenched with conventional counters, 70% with Hidex TDCR counters) provides time saving when counting to statistical limits.

Properties

- High sample capacity at 20°C offers the possibility of assay miniaturization
- Suitable for use with alkaline solubilisers providing method flexibility
- Low background contribution ensures lower LLD's
- No diffusion through plastic vials guarantees stable and reproducible counting
- High flash point of ~ 140°C increases safety
- Disposal by incineration only
- REACH regulations classify NPEs used in this cocktail as SVHC's (Substances of Very High Concern) and therefore this cocktail is available for Scientific Research & Development use only

Ordering Info

Cat. No. GSQ1 Gold Star Quanta 2 × 5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(Contains Di-isopropylnaphthalene isomers, 4-Nonyl Phenol

Ethoxylated)

IMDG/IATA

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(contains Di- isopropylnaphthalene isomers, 4-Nonyl Phenol
Ethoxylated) MARINE POLLUTANT.

Gold Star

A multi-purpose LSC cocktail

Capable of accepting not only up to 10 ml of dilute aqueous samples in 10 ml cocktail, but also lesser amounts of more concentrated aqueous samples.

Gold Star is highly suitable for assay miniaturisation as well as routine counting. Extremely resistant to chemiluminescence and is therefore suitable for use with the solubilised samples resulting from the use of solubilisers such as GoldiSol, AquiGest and Hyamine hydroxide.

Much higher Tritium counting efficiency than similar high sample capacity, competitive products and therefore offers timesaving when counting to statistical limits.

REACH regulations classify NPEs used in this cocktail as SVHC's (Substances of Very High Concern) and therefore this cocktail is available for Research & Development use only.

Ordering Info

Cat. No. GS1 Gold Star 2 × 5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(Contains Di-isopropylnaphthalene isomers, 4-Nonyl phenol ethoxylated)

IMDG/IATA

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(contains Di-isopropylnaphthalene isomers, 4-Nonyl phenol ethoxylated) MARINE POLLUTANT.

Gold Star LT2

Gold Star LT² is used to measure Low Tritium levels at Low Temperature

Gold Star LT² accepts up to 12 ml water in 10ml cocktail with Tritium counting efficiencies approaching 28% with conventional counters and >30% with Hidex TDCR counters.

At 10 ml water in 10 ml cocktail, using optimised windows and low-level count mode, Gold Star LT2 provides MDA's approaching 1.4 Bq/L with conventional counters.

Gold Star LT² is used to determine low levels of Tritium in different water samples and provides a stable counting system for all loadings at temperatures down to 12°C.

Properties

- Low background contribution ensures lower LLD's
- High capacity for water samples maximises sample capacity
- Stable at temperatures down to 12°C for sub-ambient counting
- Compatible with urine samples encountered in bioassay work
- Suitable for use with samples in mineral acids up to 4M makes it ideal for alpha / beta counting
- No diffusion through plastic vials ensures stable repeatable counting
- High flash point of ~ 140°C increases safety
- REACH regulations classify NPEs used in this cocktail as SVHC's (Substances of Very High Concern) and therefore this cocktail is only available for Research & Development use.
- Disposal by incineration only.

Ordering Info

Cat. No. GSLT2 Gold Star LT2 2 × 5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(Contains Di-isopropylnaphthalene isomers, 4-Nonyl Phenol
Ethoxylated)

IMDG/IATA

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.
(contains Di-isopropylnaphthalene isomers, 4-Nonyl Phenol
Ethoxylated) MARINE POLLUTANT.

Gold Flow

A high flash point safer cocktail designed for use in Flow Scintillation Analysis (FSA)

Gold Flow has low viscosity and is non-gelling.

A high sample load capacity combined with rapid mixing makes Gold Flow ideal for use in FSA.

Gold Flow resists quench, providing higher counting efficiencies and therefore more counts per peak.

REACH regulations classify NPEs used in this cocktail as SVHC's (Substances of Very High Concern) and therefore this cocktail is available for Research & Development use only.

Ordering Info

Cat. No. GF1	Gold Flow	2 × 5 L
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Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(Contains Di-isopropylnaphthalene isomers, 4-Nonyl phenol ethoxylated)

IMDG/IATA

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(contains Di-isopropylnaphthalene isomers, 4-Nonyl phenol ethoxylated) MARINE POLLUTANT.

ProSafe+

NPE free LSC general use cocktail

Bottled in 5 Litre bottle made of strong thick plastic with screw-thread top suitable for a Brandt Dispenser.

Properties

- NPE free
- Safe
- High flash point
- Biodegradable
- Drain Disposable in certain applications
- High flash point (147°C) increases safety
- Can be used safely on the bench

Ordering Info

Cat. No. PS+ ProSafe+ 2 × 5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR

IMDG/IATA

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S. (Contains Di-isopropylnaphthalene isomers)
3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(Contains Di-isopropylnaphthalene isomers) MARINE POLLUTANT.

ProSafe Bio+

NPE free LSC cocktail for biological samples

For counting urine and plasma samples. Designed for quick and easy mixing.

Bottled in 5 Litre bottle made of strong thick plastic with screw-thread top suitable for a Brandt Dispenser.

Properties

- Safe
- High flash point
- NPE-free
- Biodegradable
- Drain Disposable in certain applications
- High flash point (147°C) increases safety
- Can be used safely on the bench

Ordering Info

Cat. No. PSBio+ ProSafe Bio+ 2 × 5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR

IMDG/IATA

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S.,(contains Di-isopropylnaphthalene isomers)
3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S. (contains Di-isopropylnaphthalene isomers) MARINE
POLLUTANT.

ProSafe FC+

Compatible with most filter types in LSC counting

ProSafe FC+ is suitable for use with wet, dry or moist filters where wetting is fast and complete.

ProSafe FC+ provides high efficiency and sample acceptances between 1 ml and 2 ml @ 20°C.

Properties

- Suitable for use with most filter types making it ideal for filter counting
- NPE-free cocktail making it more environmentally friendly
- Biodegradable
- Drain Disposable in certain applications
- High flash point (147°C) increases safety
- Can be used safely on the bench

Ordering Info

Cat. No. PSFC+	ProSafe FC+	2 × 5 L
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Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S. (contains Di-isopropylnaphthalene isomers)

IMDG/IATA

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(contains Di-isopropylnaphthalene isomers) MARINE POLLUTANT.

ProSafe HC+

Developed to work with both dilute and more concentrated samples used in general LSC counting

ProSafe HC+ is formulated without NPEs

ProSafe HC+ will accept up to 10 ml of most dilute sample types and lesser volumes of more concentrated samples.

Properties

- Suitable for use with dilute and concentrated samples offering greater flexibility
- NPE-free cocktail making it more environmentally friendly.
- Biodegradable
- High flash point (147°C) increases safety
- Can be used safely on the bench

Ordering Info

Cat. No. PSHC+ ProSafe HC+ 2 × 5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR

IMDG/IATA

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S (contains Di-isopropylnaphthalene isomers)
3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S. (contains Di-isopropylnaphthalene isomers) MARINE
POLLUTANT.

ProSafe TS+

Developed to work with solubilised samples

ProSafe TS+ will accept samples solubilised with either GoldiSol or AquiGest.

ProSafe TS+ is also able to accept commonly encountered media used in general LSC counting.

Properties

- Suitable for use samples solubilised with all available solubilisers
- Suitable for use with other buffers/media
- NPE-free cocktail making it more environmentally friendly.
- Biodegradable
- High flash point (147°C) increases safety
- Can be used safely on the bench

Ordering Info

Cat. No. PSTS+ ProSafe TS+ 2 × 5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR

N.O.S.

IMDG/IATA

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
(Contains Di-isopropylnaphthalene isomers)
3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S. (contains Di-isopropylnaphthalene isomers) MARINE
POLLUTANT.

ProSafe LT+

Low Level Counting Cocktail

ProSafe LT+ is the latest addition to the ProSafe range of NPE-Free LSC cocktails and as such does not contain any SVHC's (Substance of Very High Concern) as defined in the European REACH regulations (EC 1907/2006).

ProSafe LT+ is used to measure Low Tritium levels at Low Temperature.

ProSafe LT+ accepts up to 11 mL water in 10 mL cocktail with Tritium counting efficiencies approaching 28% with conventional counters and >30% with Hidex TDCR counters.

At 10 mL water in 10 mL cocktail, using optimised windows and low-level count mode, ProSafe LT+ provides MDA's approaching 1.4 Bq/L with conventional counters.

ProSafe LT+ is used to determine low levels of Tritium in different water samples and provides a stable counting system for all loadings at temperatures down to 14°C.

Properties

- Low background contribution ensures lower LLD's
- High capacity for water samples maximises sample capacity
- Stable at temperatures down to 14°C for sub-ambient counting
- Compatible with urine samples encountered in bioassay work
- Suitable for use with up to 2.5 ml samples in mineral acids (1 to 4M) makes it ideal for alpha / beta counting
- No diffusion through plastic vials ensures stable repeatable counting
- High flash point of ~ 140°C increases safety
- ProSafe LT+ is NPE free
- Disposal by incineration only.

Ordering Info

Cat. No. PSLT+ ProSafe LT+ 2 × 5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR

N.O.S.

IMDG/IATA

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
(contains Di-isopropylnaphthalene isomers)
3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S. (contains Di-isopropylnaphthalene isomers) MARINE
POLLUTANT.

ProSafe Rn/AB

ProSafe Rn/AB is the NPE-free cocktail suitable for extractive (two-phase) counting of radon in water samples.

ProSafe Rn/AB is lipophilic and forms completely separate phases when mixed with water samples. The radon migrates from the water into the cocktail phase with scintillant for counting. The extraction of radon from water relies on the fact that radon is more soluble in organic solvents than in water. To achieve complete partition of radon from the aqueous phase into the organic phase it is essential that a lipophilic (non-emulsifying) LSC cocktail is used.

Ordering Info

Cat. No. PSRn/AB ProSafe Rn/AB 2 × 5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR, IMDG, IATA

3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S
(Di-isopropylnaphthalene isomers, 1, 2, 4 - Trimethylbenzene).

ProSafe O+

ProSafe O+ is the NPE-free cocktails for organic samples.

Ordering Info

Cat. No. PSO+ ProSafe O+ 2 × 5 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR, IMDG, IATA

3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S
(Di-isopropylnaphthalene isomers).

ProScint Gel+

ProScint Gel+ is a NPE-free multipurpose gel forming LSC cocktail for aqueous and non-aqueous samples.

This pseudocumene-based cocktail forms a rigid-gel when 4 to 7 mL water is added to 10mL cocktail at the temperature 17 to 20 degree Celsius.

Counting of pure liquids and suspended solids.

Flammable.

Ordering Info

Cat. No. PSGel+	ProScint Gel+	2 × 5 L
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Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN1993.

ADR

1993 FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene),
ENVIRONMENTALLY HAZARDOUS.

ProFlow G+

Developed to work with most commonly encountered eluents, including gradients, used in Flow counting. ProFlow G+ is NPE free and does not form gels, providing rapid and easy mixing.

Properties

- NPE-free cocktail making it more environmentally friendly.
- Suitable for use with dilute eluents and aqueous/organic gradients
- Suitable up to 2:1 ratio with water/acetonitrile gradients
- Biodegradable
- High flash point (147°C) increases safety
- Can be used safely on the bench

ProFlow G+ accepts a wide range of sample types at excellent mixing ratios:

	Capacity	Max Ratio
DI Water	10.00 mL	1:1
1/1 Water/Methanol	6.00 mL	2:1
1/1 Water/Acetonitrile	10.00 mL	1:1
0.01M PBS	10.00 mL	1:1
0.1M PBS	10.00 mL	1:1
0.15M NaCl	10.00 mL	1:1
0.5m NaCl	6.00 mL	2:1
1.0M NaCl	2.50 mL	4:1
0.05M Tris-HCl	10.00 mL	1:1
0.02M Ammonium formate	10.00 mL	1:1
0.25M Ammonium acetate	6.00 mL	2:1
0.1M HCl	5.50 mL	2:1
1.0M HCl	10.00 mL	1:1
0.1M NaOH	4.50 mL	3:1
1.0M NaOH	4.50 mL	3:1

Ordering Info

Cat. No. PFG+

ProFlow G+

2 × 5 L

Storage

Store at or slightly below room temperature (15–25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR

IMDG/IATA

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S.,(contains Di-isopropylnaphthalene isomers)
3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S. (contains Di-isopropylnaphthalene isomers) MARINE
POLLUTANT.

ProFlow P+

Developed to work with ammonium phosphate gradients ranging from 0 to 2M concentration.

ProFlow P+ is NPE free and does not form gels, providing rapid easy mixing.

Properties

- NPE-free cocktail
- Suitable for use with 0 to 2M ammonium phosphate gradients
- No offensive odour
- High flash point (147°C)

Ordering Info

Cat. No. PfP+	ProFlow P+	2 × 5 L
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Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

PlateScint MAX, PlateScint HE and PlateScint O

PlateScint Cocktails for use in all plate scintillation counters, such as the Hidex Sense Beta.

PlateScint Max scintillation cocktail is formulated to accept higher volumes of dilute aqueous samples at up to 50% loading (1:1 ratio). It is the cocktail to use when high sample capacity is required.

PlateScint HE (High Efficiency) scintillation cocktail is formulated to count low to medium volumes of dilute aqueous samples <20% with high efficiency. It is the cocktail of choice for counting filters that have not been completely dried.

PlateScint O is the scintillation cocktail for organic samples and dry filter plates.

Ordering Info

Cat. No. PSMaX	PlateScint Max	1 L
Cat. No. PSHE	PlateScint HE	1 L
Cat. No. PSO	PlateScint O	1 L

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN3082.

ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(Contains Di-isopropylnaphthalene isomers, 4-Nonyl Phenol
Ethoxylated)

IMDG/IATA

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
(contains Di-isopropylnaphthalene isomers, 4-Nonyl Phenol,
Ethoxylated) MARINE POLLUTANT.

GoldiSol

GoldiSol is the newest generation of tissue solubilisers and offers a safer solution to the dilemma of solubilisation. GoldiSol is based on IPA (isopropyl alcohol) and is completely Toluene-free and Methanol-free. As such it is NOT classified as Toxic.

GoldiSol solubilises most tissue types FASTER than currently available organic solvent based solubilisers and does not froth when hydrogen peroxide is added to decolourise the tissue digest. Gentle and complete reaction with one addition provides a simple, easy, and clean decolourisation step. GoldiSol is less prone to inducing chemiluminescence than existing solubilisers.

Ordering Info

Cat. No. GTS05	GoldiSol	500 mL
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Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

UN2920.

ADR, ADN, IMDG, IATA

CORROSIVE LIQUID, FLAMMABLE, N.O.S (Quaternary ammonium hydroxide in Propan- 2-ol).

AquiGest

AquiGest is aqueous based and is therefore not classified as Flammable or Toxic. AquiGest can easily replace organic solvent based solubilisers for almost all tissue samples, providing equivalent or even faster solubilisation. AquiGest produces tissue digests that are conspicuously less coloured than those obtained using organic solvent based solubilisers.

Ordering Info

Cat. No. ATS05 AquiGest 500 mL

Storage

Store at or slightly below room temperature (15-25°C) in chemical storage cabinet. Keep container tightly sealed. Protect from light.

Transport information

3266.

ADR, IMDG, IATA

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S (SODIUM HYDROXIDE).