

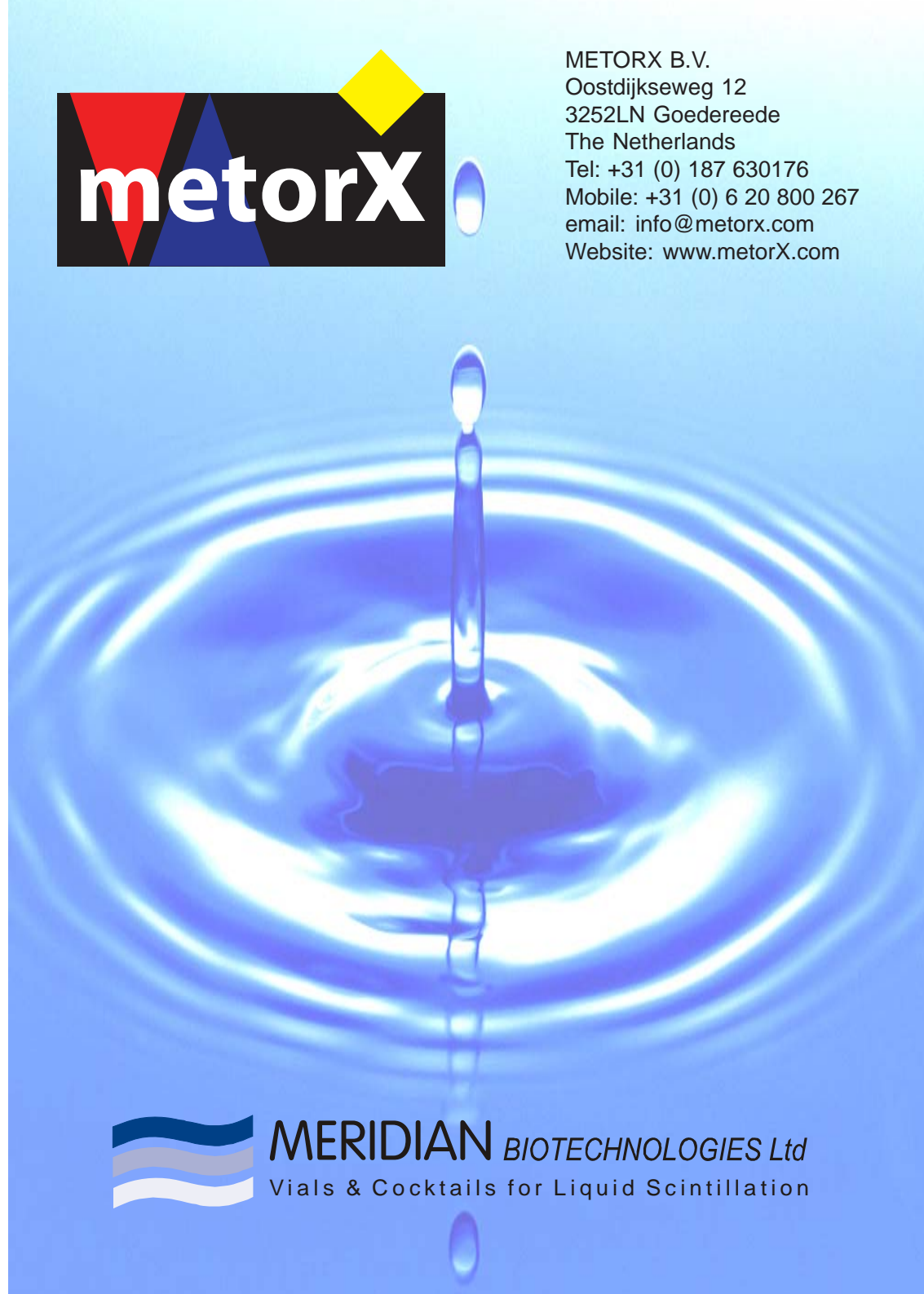
ProSafe+	Pro-Scint+
ProFlow+	StarGel
Gold Star	CarbonCount
Gold Star Quanta	CarbonTrap
Gold Star LT ²	
MicroFlow G	GoldiSol
RadonCount	AquiGest



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MERIDIAN BIOTECHNOLOGIES Ltd
 Vials & Cocktails for Liquid Scintillation

Glass Vials

Manufactured with low background materials with no minimal detectable impurities. For user safety the glass is annealed to prevent brittleness and minimise breakages. Caps have a flat surface for writing or labelling. Leak tests show no loss of cocktail.

GV1 500 x 20mL Glass Vials packed in 5 trays of 100
With 5 bags of 100 High Reflection caps

GV2 500 x 20mL Glass Vials packed in 5 trays of 100
With 5 bags of 100 Polycone caps

GV11 500 x 20mL Glass Vials packed in 5 trays of 100
With High Reflection caps on

GV21 500 x 20mL Glass Vials packed in 5 trays of 100
With Polycone caps on

GV4 1000 x 7mL Glass Vials packed in 5 trays of 200
With 5 bags of 200 High Reflection caps

Plastic Vials

Manufactured from virgin High Density Linear Polyethylene ensuring uniformity of structure and no diffusion of high flash-point cocktails through the vial wall. Counting backgrounds are low (5-7 cpm in 0-18.6 keV window) giving excellent performance. Plastic vials offer an excellent cost saving alternative to glass vials with no compromise on performance.

PV1 1000 x 20mL Plastic Vials with caps

PV10 500 x 20mL Plastic Vials packed in trays with caps in 5 bags of 100

PV11 500 x 20mL Plastic Vials packed in trays with caps on

PV4 2000 x 8mL Plastic Vials with Popscrew caps

PV41 1024 x 8mL Plastic Vials packed in 4 trays with Popscrew caps on

PV2 2500 x 6mL Plastic Vials with Popscrew caps

PV3 2500 x 6mL Plastic Vials with Push-In caps

Conventional Cocktails

The following are common to all the Gold Star range of cocktails

No odour	<i>pleasant to use</i>
No need for a fume hood	<i>save space and cost</i>
No storage problems	<i>save money</i>
Fewer handling restrictions	<i>cost saving</i>
Higher efficiencies	<i>shorter counting times and less error in results</i>
Low backgrounds	<i>better statistics and lower detection limits</i>
Higher capacity	<i>larger sample uptake giving better limits of detection or use less cocktail – cost saving</i>
Aluminium containers	<i>no ingress of ³H over time as may happen with glass and resistant to damage in transit</i>
Use plastic vials	<i>lower backgrounds hence lower detection limits better efficiency hence shorter count times cheaper</i>

Gold Star Quanta

High performance LSC cocktail with unmatched counting efficiency for a very wide range of solutes.
Safer - odourless
Colour & quench resistant
Low photo and chemiluminescence
No permeation through plastic vials

Gold Star

High performance LSC cocktail with excellent counting efficiency coupled with extensive sample holding capacity for a very wide range of solutes.
Safer - odourless - colour & quench resistant
Low photo and chemiluminescence
No permeation through plastic vials

Gold Flow

Gold Flow is a high efficiency, high capacity flow scintillation cocktail. Designed for excellent performance with methanol/water and acetonitrile/water gradients.
Safer - odourless
Colour & quench resistant
Low photo and chemiluminescence - Non-gelling

Gold Star LT²

Gold Star LT² is a Low Temperature Low Tritium, high water capacity LSC Cocktail. Specifically designed for counting low levels of ³H in water and other solutes.
Safer - odourless
Low background
High counting efficiency
Colour & quench resistant
Low photo and chemiluminescence
Available in glass or spun-wound aluminium containers.

MicroFlow G Liquid Scintillation Cocktail specifically designed for *MicroFlow HPLC* applications.
High sample capacity and excellent performance with methanol/water and acetonitrile/water gradients.

RadonCount RadonCount has been specially formulated for counting Radon in water. Pseudocumene based and supplied in spun-wound aluminium containers.
Has to be transported as a flammable liquid (Hazardous).

Pro-Scint Rn Rad-Safe has been specially designed for counting Radon in water. Mineral oil based therefore safe to transport. Non hazardous and supplied in spun-wound aluminium containers.

StarGel StarGel has been specifically designed for suspension counting where the particulate matter is held in the gel phase. Odourless and pleasant to use, compatible with plastic vials and a substantial cost saving over other cocktails of similar type.

Oxidiser / Pyrolyser Reagents

CarbonTrap A high capacity carbon dioxide absorber used to trap radioactive carbon dioxide produced in sample oxidisers and pyrolysers.

CarbonCount A specific complementary LSC cocktail for counting radioactive carbon dioxide captured in CarbonTrap.

Tissue Solubilisers

GoldiSol Based on IPA (isopropyl alcohol), it is toluene and methanol free and therefore not classified as toxic.
Solubilises all tested samples faster than currently available organic-based solubilisers.
Minimal frothing when hydrogen peroxide is added to decolourise the tissue digest. Gentle and complete reaction with one addition provides a simple and easy decolourisation step.

AquiGest Aqueous based and therefore not classified as flammable or toxic.
Produces tissue digests that are conspicuously less coloured than those obtained with organic solvent based solubilisers.

Hyamine Hydroxide Hyamine Hydroxide (1.0M) solution in methanol used for trapping carbon dioxide in the *heliobacter pylori* test, but can also be used as a tissue solubiliser.

Next Generation Cocktails

EC Directive 2003/53/EEC puts in place controls to restrict the marketing and use of nonylphenol and nonyl phenol ethoxylate. All current LSC cocktails contain NPEs and therefore, drain disposal of cocktail and cocktail waste is not an option, irrespective of any certification regarding biodegradability.

Meridian Biotechnologies Ltd has recently formulated a new range of cocktails that do not contain any NPEs or APEs and only contain 100% biodegradable constituents. ProSafe+ and ProFlow+ cocktails biodegrade completely without producing endocrine disruptors as experienced with NPE or APE containing cocktails.

The following are common to the new ProSafe+/ProFlow+ Range of cocktails

No odour	<i>pleasant to use</i>
No need for a fume hood	<i>save space and cost</i>
No storage problems	<i>save money</i>
Fewer handling restrictions	<i>cost saving</i>
Higher efficiencies	<i>shorter counting times and less error in results</i>
Higher capacity	<i>larger sample uptake and better limits of detection</i>
	<i>use less cocktail – cost saving</i>
Use plastic vials	<i>lower backgrounds hence lower detection limits</i>
	<i>better efficiency hence shorter count times</i>
	<i>cheaper</i>

ProSafe+ High performance cocktail that will accept 2 to 3mL of most dilute samples in 10mL of cocktail.

ProSafe HC+ High sample Capacity cocktail that will accept 10mL of many dilute samples and lesser amounts of more concentrated samples in 10mL of cocktail.

ProSafe TS+ Specialist cocktail for use with **Tissue Solubilised** (digested) samples originating from both organic and aqueous solubilisers.

ProSafe FC+ High efficiency cocktail for use with wet or dry **Filter Counting** and lower volume 1-2mL aqueous samples.

Next Generation Flow Cocktails

ProSafe G+ General purpose flow cocktail for use with dilute eluents and organic/ aqueous gradients.

ProSafe P+ Specialist flow cocktail for use with 0-2M ammonium phosphate gradients.