

## ROTISZINT® Cocktails

*NEXT GENERATION*

### Our successor products to ROTISZINT®Eco plus

Multi-purpose, ready-to-use scintillation cocktails for Liquid Scintillation Counting (LSC) of  $\beta$  radiators (e.g.  $^3\text{H}$ ,  $^{14}\text{C}$ ,  $^{32}\text{P}$ ,  $^{35}\text{S}$ ) in aqueous samples. **NPE free.**

- High counting efficiency
- Very good quench resistance
- Low photo- and chemoluminescence
- Hardly inflammable
- NPE free
- Biodegradable
- Non-carcinogenic
- Virtually odor- and colourless
- No permeation through plastic vials



The cocktails are according to Directive 2003/53/ECC of the European Parliament and Council

# ROTISZINT® Cocktails

## NEXT GENERATION

The next generation ROTISZINT® Cocktails have been developed to replace nonylphenylethoxylates (NPE) with more user-friendly, sustainable reagents. In addition, these modern cocktails show even higher scintillation efficiency and higher sample holding capacity. ROTISZINT® cocktails are also biodegradable and pleasant to use due to their high flash point.

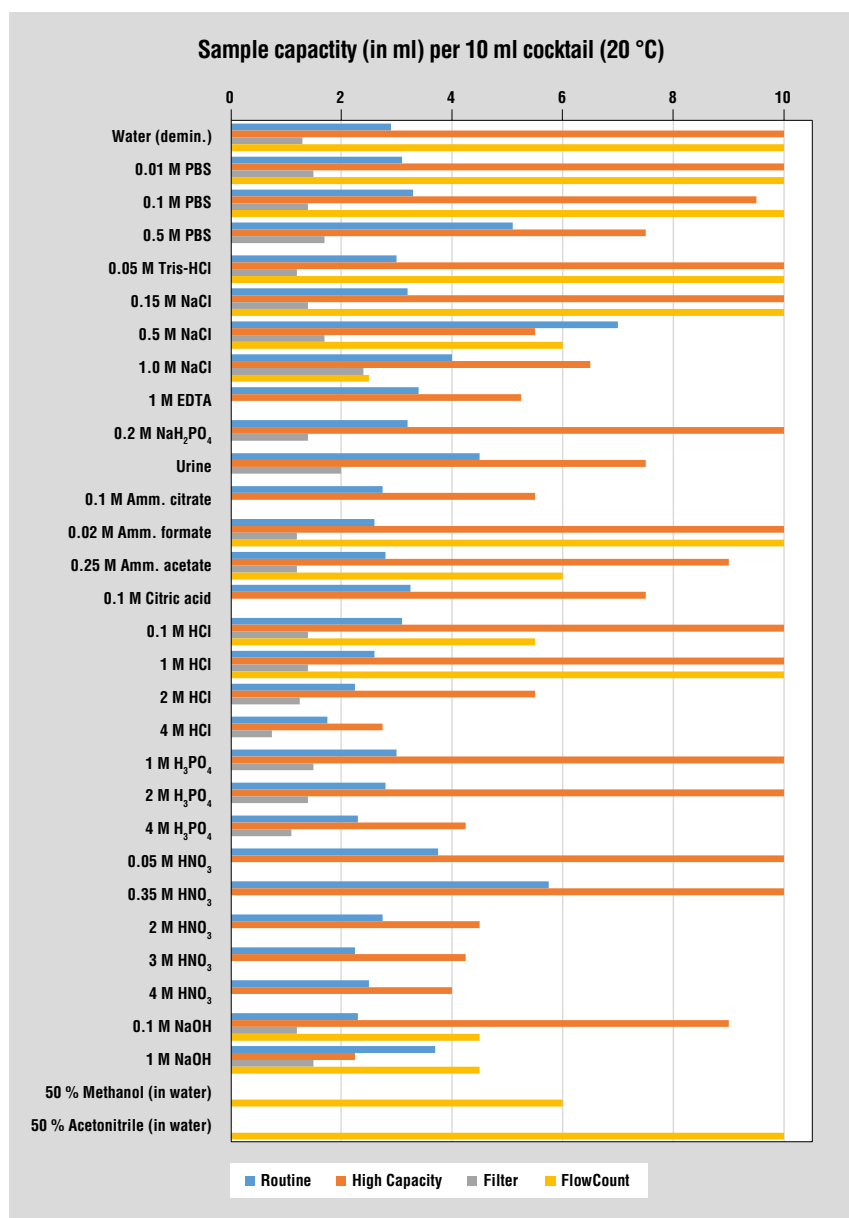
ROTISZINT® scintillation cocktails may be used in all biological, biochemical and chemical areas. Typical applications are, for instance, the measurement of cell culture supernatants, routine analysis, enzymatic or flow-count assays in the field of research, development or analytics.

### Directions for use

Wide **excitation range** between 190 and 370 nm

**Emission maximum:** 420-430 nm

Our modern ROTISZINT® cocktails contain the same reagents as primary and secondary scintillators that were used in ROTISZINT®Eco plus. Thus, neither the excitation nor the detection wavelength change for the application.



**Figure:**  
Typical sample acceptance capacity (in ml) per 10 ml cocktail (20 °C).  
The chart shows typical application data where available.  
Empty bars = not tested.

# ROTISZINT® Cocktails

## NEXT GENERATION

ready-to-use

### ROTISZINT®Routine

**ROTISZINT® ready-to-use, NPE free, for scintillation**

LSC cocktail, for scintillation assays in general

Safe and easy-to-use scintillation cocktail for a wide range of applications. ROTISZINT®Routine has a good sample uptake capacity for all aqueous samples and is suitable for solutions with high ionic strength.

Excellent for measuring solutions. For the measurement of filter samples we recommend the use of ROTISZINT®Filter.

Storage temperature: +15 to +25 °C

UN no. 3082 · ADR 9 III · WGK 3

**Danger H304-H315-H318-H410**

Art. No.	Pack Qty.	Pack.
1P1A.1	500 ml	plastic
1P1A.2	5 l	plastic



ready-to-use

### ROTISZINT®FlowCount

**ROTISZINT® ready-to-use, NPE free, for scintillation**

LSC cocktail, for flow count assays

The ROTISZINT®FlowCount cocktail is intended for use in Flow Scintillation Counting and has been formulated using alcohol ethoxylates, containing no NPE at all. It has been developed to work with most commonly encountered eluents, including gradients, used in Flow counting.

ROTISZINT®FlowCount does not form gels, providing rapid and easy mixing.

Suitable for general eluents and aqueous/organic gradients, e.g. and water/methanol or water/acetonitrile gradients up to 2 : 1 ratio.

Storage temperature: +15 to +25 °C

UN no. 3082 · ADR 9 III · WGK 3

**Danger H304-H315-H318-H410**

Art. No.	Pack Qty.	Pack.
1P19.1	500 ml	plastic
1P19.2	5 l	plastic



ready-to-use

### ROTISZINT®Filter

**ROTISZINT® ready-to-use, NPE free, for scintillation**

LSC cocktail, for filter assays

Special scintillation cocktail for measuring samples in filter plates. ROTISZINT®Filter can be used with practically all filter types as well as with dry, moist or wet filter plates; the wetting of the filters by the scintillation cocktail is fast and complete. Biodegradable.

The addition of an elution buffer is not necessary. Filter plates can be directly wetted with the scintillation cocktail and measured.

Storage temperature: +15 to +25 °C

UN no. 3082 · ADR 9 III · WGK 3

**Danger H304-H315-H318-H410**

Art. No.	Pack Qty.	Pack.
1P18.1	500 ml	plastic
1P18.2	5 l	plastic



ready-to-use

### ROTISZINT®HighCapacity

**ROTISZINT® ready-to-use, NPE free, for scintillation**

LSC cocktail, for large sample volumes and highly concentrated samples

ROTISZINT®HighCapacity was developed to work with both dilute and more concentrated samples used in general LSC counting. This special scintillation cocktail will accept up to 10 ml of most dilute sample types and lesser volumes of concentrated samples. ROTISZINT®HighCapacity thus offers the greatest possible flexibility with samples of high diversity.

Excellent for measuring solutions. For the measurement of filter samples we recommend the use of ROTISZINT®Filter.

Storage temperature: +15 to +25 °C

UN no. 3082 · ADR 9 III · WGK 3

**Danger H304-H315-H318-H410**

Art. No.	Pack Qty.	Pack.
1P1C.1	500 ml	plastic
1P1C.2	5 l	plastic



# SCINTILLATION COCKTAILS



## Scintillation vials

ROTH SELECTION.

Not a medical device / Not an IVD product

Vol. (ml)	Material	Ø ext. (mm)	Height (mm)	Art. No.	Pack Qty.
5	HDPE	14	53	<b>5404.1</b>	2,000 unit(s)
20	HDPE	27	60	<b>HEN0.1</b>	1,000 unit(s)



## Scintillation vials 20 ml

Made of borosilicate glass (acc. to USP type I and ASTM E 438 type I, class A), HDPE or PET. Caps made of PP with seals made of PE foam or aluminium-coated cellulose cardboard, assembled.

Not a medical device / Not an IVD product

### Scintillation vials 20 ml Caps made from PP with PE foam seal

DWK Life Sciences.

Suitable for aqueous, acid, alkaline or alcoholic solutions.

Vol. (ml)	Material	Ø (mm)	Height (mm)	Art. No.	Pack Qty.
20	borosilicate glass	28	61	<b>EXY1.1</b>	500 unit(s)
20	HDPE	27	61	<b>EXY2.1</b>	500 unit(s)
20	PET	27	61	<b>EXY3.1</b>	500 unit(s)

## Dispensers ROTILABO® II A 121 °C

- Direct displacing piston with wiping PFA lip seal reduces crystallisation of liquids
- Improved volume adjustment due to internal toothed rack, volumes can be set quickly and precisely
- Valve block rotatable by 360° on the bottle, with GL 45 thread
- Swivelling cap does not obstruct dispensing
- Vent valve with safety bulb closes dosing channel if discharge tube is not fitted
- Screwable ventilation stoppers for quick assembly of a drying tube
- Telescopic intake tube, infinitely adjustable to different bottle heights
- Suitable for calibration in conjunction with measuring instrument inspection acc. to ISO 9001 and GLP; change to factory calibration is displayed
- Autoclavable at 121 °C (2 bar), acc. to DIN EN 285, with no need to disassemble

Materials in contact with media: Borosilicate glass, Al<sub>2</sub>O<sub>3</sub> ceramic, ETFE, FEP, PFA, PTFE, platinum-iridium, PP (cap).

Limits of use: Temperature from +15 °C to +40 °C, steam pressure up to max. 500 mbar, kinematic viscosity up to 500 mm<sup>2</sup>/s, density up to 2.2 g/cm<sup>3</sup>.

### Technical specifications:

Art. No.	HAC6.1	HAC7.1	HAC8.1	HAC9.1	HAE0.1	HAE1.1
Nominal volume	2 ml	5 ml	10 ml	25 ml	50 ml	100 ml
Correctness	±10 µl	±25 µl	±50 µl	±125 µl	±250 µl	±500 µl
Variation coefficient	±2 µl	±5 µl	±10 µl	±25 µl	±50 µl	±100 µl
Operating temperature	+15 – +40 °C					
Adapter	GL 25, GL 28/S 28, GL 32, GL 38, S 40			GL 32, GL 38, S 40		
Suction tube length	240 mm			330 mm		

**Delivery incl.** quality certificate, telescopic filling tube, valve mounting tool and PP thread adapter.

## Dispensers ROTILABO® II

Carl ROTH.

Volume (ml)	Graduation	Art. No.	Pack Qty.
0,2–2	0,05	<b>HAC6.1</b>	1 unit(s)
0,5–5	0,10	<b>HAC7.1</b>	1 unit(s)
1–10	0,20	<b>HAC8.1</b>	1 unit(s)
2,5–25	0,50	<b>HAC9.1</b>	1 unit(s)
5–50	1,0	<b>HAE0.1</b>	1 unit(s)
10–100	1,0	<b>HAE1.1</b>	1 unit(s)

Current prices at [www.carlroth.com](http://www.carlroth.com)

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