



**YOU**ILITY – DESIGNED FOR YOU

THE DURAN® LABORATORY BOTTLE SYSTEM

 **DURAN GROUP**  
magic of precision



## MORE THAN JUST A BETTER BOTTLE, IT'S A COMPLETE SYSTEM.

**Discover the way to make laboratory work easier, safer, more economical and fun.**

Borosilicate 3.3 glass bottles are very widely used in scientific research for activities such as sampling, storage, mixing, media preparation and sterilisation of liquids. But often they are not given a second thought. The DURAN Group pioneered the screw threaded GL 45 DURAN® borosilicate glass laboratory bottle way back in 1972. Prior to that date most laboratory reagent bottles had been sealed by a glass stopper. Since its introduction over four decades ago, the DURAN® GL 45 laboratory bottle has become the bottle of choice for laboratories around the world.

However since then, the basic form and design of the DURAN® bottles has remained virtually unchanged.

Yet the demands on laboratory efficiency, personnel and equipment grow ever more stringent. In response to these demands, the DURAN Group initiated a project to develop a laboratory bottle system that was more suited to today's customer requirements.

After extensive market and customer research, twelve key tasks associated with laboratory bottle usage were identified. Significantly, all the tasks involved the manual handling of the bottles and caps. In addition, for most of the key tasks, the clear and unambiguous identification of the bottle and its contents was essential. Therefore the parameters targeted for improvements were

ergonomic handling, ease of use, and the development of a better method of bottle identification.

The result is the DURAN® YOUTILITY bottle system, a new generation of glass laboratory bottles for use in a wide and diverse range of scientific research applications. The innovation does not stop at the improved ergonomic bottle shape, but extends to dedicated accessories that incorporate many new innovative features to improve handling, sample identification, and ease of use. The new YOUTILITY bottle system helps to make laboratory work easier, safer, more economical and fun.



1900s – DURAN® Reagent bottle sealed with glass stopper



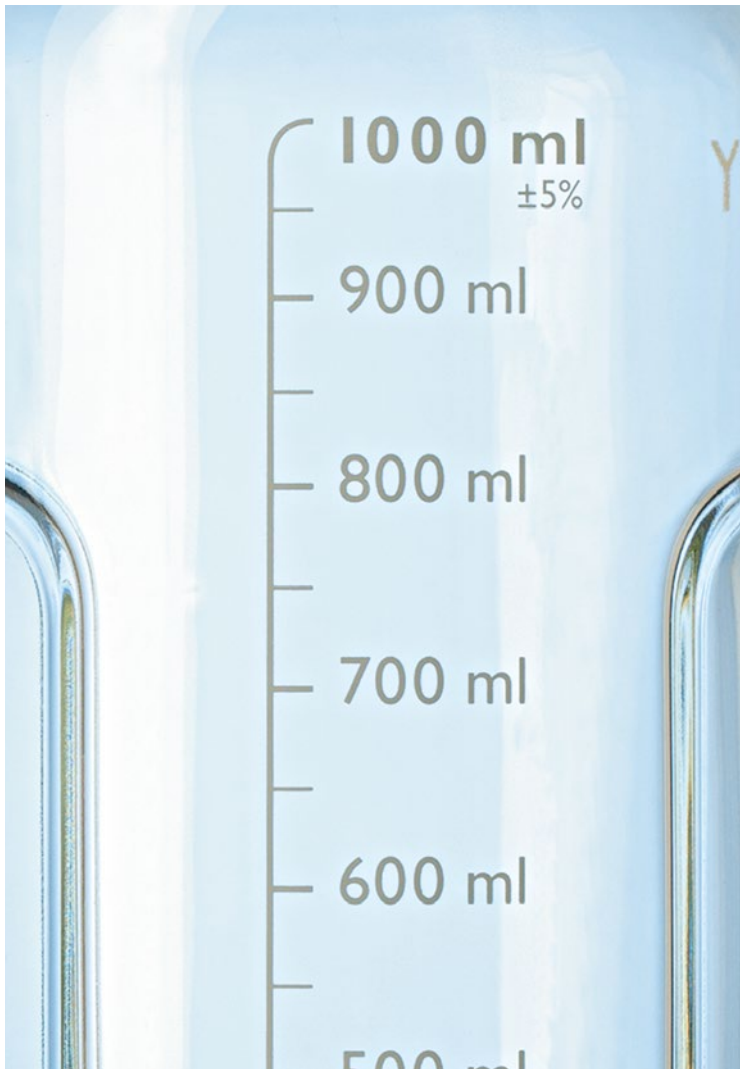
1972 – DURAN® GL 45 laboratory bottle with screw cap



2014 – DURAN® YOUTILITY laboratory bottle system

## ONE GOOD TURN DESERVES ANOTHER

The DURAN® YOUTILITY screw cap features a secure grip, fast opening, and quick closing. The optimized, ergonomic shape of the cap has comfortable grooves and ridges for a more efficient and easier tightening or removal, especially with smaller sized or gloved hands. The inverted cone form and reduced cap diameter offers significant advantages, making handling easier and safer. The shortened thread inside the cap permits faster opening and closing, but is fully compatible with standard DIN GL 45 bottles. The tried and tested cap plug sealing system ensures a liquid tight seal. A pre-defined labelling area on the cap is compatible with the dedicated DURAN® self-adhesive YOUTILITY labels. The YOUTILITY screw cap features an integrated two or three character Retrace Code to provide product traceability via a downloadable certificate. The cap is manufactured from a food grade polypropylene that is fully autoclavable and totally reusable.



## STEPPING UP TO THE MARK

Determining the nominal volume mark on traditional media bottles can be confusing for some users. On the four YOUTILITY bottles, the total volume is clearly and unambiguously indicated. The volume graduations and a Retrace Code are marked in durable white ceramic for a long service life.



## SHOW YOUR TRUE COLOURS

The colourful GL 45 Bottle Tags offer an elegant solution to the marking of laboratory bottles. The Bottle Tags can be easily and securely attached around the neck of the YOUTILITY bottle, even with the screw cap in place. The Bottle Tags feature a graspable tab that makes them easy to remove with bare or gloved hands. The silicone Bottle Tags are chemically robust, heat resistant, fully autoclavable and totally reusable. Their potential uses in the laboratory are endless; in a shared lab, tag all your bottles with your favourite colour. Or colour tag all the bottles used for a particular application or in a certain experiment. No more mix-ups. The GL 45 Bottle Tags are available in eight playful colours; red, orange, yellow, green, blue, purple, black and white. Bring some colour into your laboratory by choosing your favorite Bottle Tag.



## GOOD THINGS COME IN SMALL PACKAGES

The smaller YOUTILITY pack sizes are ideal for users with a lower usage requirement for bottles. In a response to customer demands all sizes of the YOUTILITY bottles are available in packs of four complete bottles.

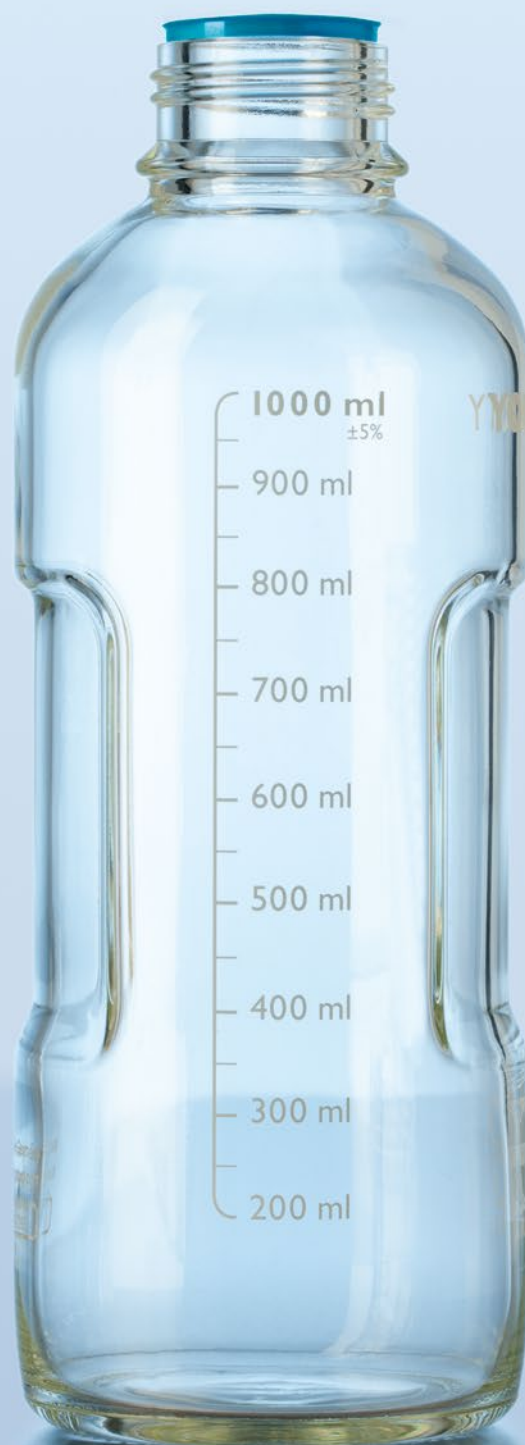
# YOUTILITY

## WELCOME TO THE 21ST CENTURY OF FUNCTIONALITY

The key components in the YOUTILITY system are the innovative DURAN® YOUTILITY borosilicate 3.3 glass bottles. Each YOUTILITY bottle has many features that significantly improve the handling and utilisation of the bottle. The specially shaped gripping zones on both sides of the bottle permit easier and safer handling. With the new glass thread, the opening or closing of the YOUTILITY bottle is significantly faster. Yet the thread remains fully compatible with DIN GL 45 closures and other accessories.

The slimmer YOUTILITY bottle shape allows a more optimal use of limited space in autoclaves and laboratory refrigerators. The bottles can be conveniently stacked horizontally on their sides. A pre-defined labelling area is compatible with the dedicated self-adhesive YOUTILITY

bottle labels. The newly designed ceramic print layout on the bottle clearly indicates the nominal volume as well as showing an easy-to-read graduation scale for the fast determination of the contents. A range of sequentially sized bottles are available in the four popular volumes of 125, 250, 500 and 1000 ml. The glass bottles are moulded from the tried and tested DURAN® borosilicate 3.3, a pharmacopoeial Type I neutral glass. DURAN® glass offers a very good chemical resistance and high temperature resistance. Bottles are available in both clear and amber coloured glass. The amber colour meets the requirements of the USP <660> and Ph. Eur. for UV light protection. The entire YOUTILITY bottle range has an integrated Retrace Code to allow product traceability via a downloadable certificate of conformance.



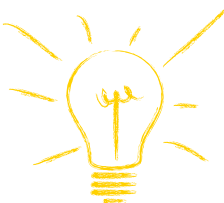
**NOMINAL VOLUME**  
Clearly and unambiguously  
indicated in durable white  
ceramic.

# EXPRESS YOURSELF!

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chemical  
Attraction

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WEIGHT IT, POUR IT,  
LABEL IT, STERILIZE IT,  
  
STORE IT, READ IT,  
OPEN IT, USE IT,  
  
PEEL IT, CLEAN IT,  
REUSE IT, LOVE IT!

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GRIP ADDICT!

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5	3		7			
6			1	9	5	
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Serotonin  
& Dopamine

Technical  
the only  
two things  
you enjoy

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Today I feel:

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# A PLACE FOR EVERYTHING

## Dedicated YOUTILITY labelling system for caps and bottles.

The accurate and reliable labelling of scientific samples is an integral part of the success of your laboratory. Labels carry critical information such as the description of the contents, composition, concentrations, pH, make-up date, lot number, expiry date, storage conditions, user information, and without them, your research could be unreliable and possibly invalid. Labels are the foundation of an effective laboratory bottle management process.



Laboratory bottles used to sterilise media often have an identification label together with a piece of “autoclave tape”, the appearance is messy, can be difficult to remove after use.

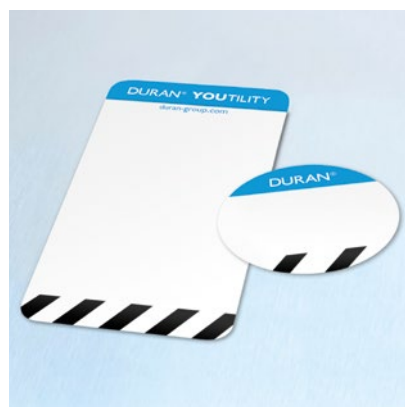


The YOUTILITY bottles and caps have dedicated marked label areas. There are two types of YOUTILITY labels, one larger rectangular label that fits all four sizes of bottle, and a smaller circular label that exactly fits the YOUTILITY polypropylene screw cap. The dual labeling of bottles and caps helps to prevent sample mix-ups. The cap labels are invaluable for identifying bottles when stacked in a fridge or from above if the bottles are in a water bath.

The YOUTILITY labels conveniently combine the flexibility of a blank writable label with an autoclave/steam sterilisation Class I process indicator (ANSI/AAMI/ISO 11140-1:2005). The labels are non-hazardous, and free of toxic heavy metals.

There are many ways that bottles can be labelled. Our research indicated that users use a wide range of labelling materials and formats such as tape, pre-printed, blank labels and/or autoclave tape, for labelling bottles. Many labels used in laboratories can be difficult to remove after use, resulting in scratched bottles and extra time wasted cleaning. The YOUTILITY labels were developed to address the need for a reliable, short term method of sample, cap and bottle tracking and identification. The labels will stay on when you need them to do so, and are easy to remove when no longer required. This allows the bottles and caps to be quickly and easily cleaned, ready for re-use.

Both YOUTILITY label formats are manufactured from a tear resistant, matt white, polyester material coated with a high performance adhesive. The print receptive top surface will accept a variety of inks, including copier, printer, ballpoint and technical markers (pre-test specific ink for suitability prior to use). The labels are chemically resistant to typical laboratory chemicals such as disinfectants and many solvents. They have a wide  $-40$  to  $+150^{\circ}\text{C}$  temperature performance range, making them suitable for use in fridges, freezers, autoclaves, incubators and water baths without the risk of the labels drying out or falling off.



After use, the YOUTILITY labels may be easily and completely removed by peeling. The labels are supplied in a re-sealable, splash resistant box containing a roll of 200 label sets.

# EVERYTHING YOU NEED TO KNOW ABOUT THE REVOLUTIONARY YOUTILITY BOTTLE SYSTEM AT A GLANCE

Now it's your turn to choose your favourite bottle size, coloured tags, and accessories.

Any further questions or need more information? Get in touch with us at the DURAN® YOUTILITY web site [duran-youtility.com](http://duran-youtility.com).

Or contact your preferred laboratory supplier. If your supplier isn't yet part of the YOUTILITY revolution please contact us by phone or email.



## DURAN® YOUTILITY ORDERING INFORMATION

Cat. No.	Nominal Volume (ml)	Description	Height (mm)	Outer Diameter (mm)	Pack Size
21 881 28 54	125	DURAN® YOUTILITY bottle, GL 45, clear glass, complete	124	55	4
21 881 36 53	250	DURAN® YOUTILITY bottle, GL 45, clear glass, complete	158	66	4
21 881 44 52	500	DURAN® YOUTILITY bottle, GL 45, clear glass, complete	193	78	4
21 881 54 57	1000	DURAN® YOUTILITY bottle, GL 45, clear glass, complete	253	93	4

Cat. No.	Nominal Volume (ml)	Description	Height (mm)	Outer Diameter (mm)	Pack Size
21 886 28 59	125	DURAN® YOUTILITY bottle, GL 45, amber; complete	124	55	4
21 886 36 58	250	DURAN® YOUTILITY bottle, GL 45, amber; complete	158	66	4
21 886 44 57	500	DURAN® YOUTILITY bottle, GL 45, amber; complete	193	78	4
21 886 54 53	1000	DURAN® YOUTILITY bottle, GL 45, amber; complete	253	93	4

## DURAN® YOUTILITY ACCESSORIES AND REPLACEMENT PARTS

Cat. No.	Description	Material and colour	Pack Size
29 229 28 02	DURAN® YOUTILITY Screw Cap GL 45	Food grade Polypropylene (PP), cyan	10
29 241 28 08	DURAN® YOUTILITY Pouring Ring GL 45	Food grade Polypropylene (PP), cyan	16
29 401 00 06	DURAN® YOUTILITY 200 self-adhesive label sets	White Polyester labels in a dispenser box	1 × 200 sets
29 243 29 04	DURAN® Bottle Tags GL 45 Mixed colours	Silicone. Eight colours: two bottle tags are supplied in each colour	16
29 243 28 18	DURAN® Bottle Tags GL 45 Red	Silicone. Red colour only	20
29 243 28 26	DURAN® Bottle Tags GL 45 Orange	Silicone. Orange colour only	20
29 243 28 34	DURAN® Bottle Tags GL 45 Yellow	Silicone. Yellow colour only	20
29 243 28 42	DURAN® Bottle Tags GL 45 Green	Silicone. Green colour only	20
29 243 28 59	DURAN® Bottle Tags GL 45 Blue	Silicone. Blue colour only	20
29 243 28 67	DURAN® Bottle Tags GL 45 Purple	Silicone. Purple colour only	20
29 243 28 75	DURAN® Bottle Tags GL 45 Black	Silicone. Black colour only	20
29 243 28 83	DURAN® Bottle Tags GL 45 White	Silicone. White colour only	20

