

DURAN® BAFFLED, WIDE MOUTH BOTTLE GLS 80®

for
EFFECTIVE MIXING



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During mixing in standard GLS 80® laboratory bottles, the liquid moves in a swirling motion that approximates a solid-body rotation. The entire fluid, and any suspended particles, moves like a carousel. This is a very inefficient flow pattern, and very little mixing actually occurs. By adding three vertical baffles into the inner surface of the GLS 80® bottles, the swirling motion is disrupted, and a much more effective mixing occurs. The baffles improve the top-to-bottom circulation and produce a greater radial mixing. The baffles also offer other advantages such as suppressing the formation of a central vortex, and reducing dead-zones where mixing does not occur.

Applications

- Aerating
- Dissolving
- Emulsifying
- Homogenizing
- Mixing
- Suspending



Features and Benefits

- Manufactured from DURAN® borosilicate 3.3 glass, renowned for its excellent thermal performance and high resistance to chemical attack.
- The baffles are moulded into the glass side wall of the bottles and form a continuous, smooth inner surface making clean up easy.
- The wide 65 mm inner diameter of the GLS 80® wide mouth provides easy access to the contents, or for cleaning.
- The baffled GLS 80® bottles are fully compatible with both the DURAN® GLS 80® magnetic stirrers, and other magnetic stir bars.
- The baffled GLS 80® bottles are fully autoclavable.
- Compatible with full range of wide mouth GLS 80® connection cap systems for liquid addition or removal when mixing with stir bars.
- The bottles feature an easy-to-read graduated volume scale.
- Available in three convenient sizes: 250, 500 and 1000 mL.

Ordering information

Description	Capacity (mL)	h (mm)	d (mm)	Pack Unit	Cat. No.
DURAN® baffled wide mouth bottle GLS 80®, supplied complete with polypropylene pouring ring and GLS 80® cap	250	105	95	1	21 286 36 58
DURAN® baffled wide mouth bottle GLS 80®, supplied complete with polypropylene pouring ring and GLS 80® cap	500	152	101	1	21 286 44 57
DURAN® baffled wide mouth bottle GLS 80®, supplied complete with polypropylene pouring ring and GLS 80® cap	1000	222	101	1	21 286 54 53

Optional accessories

Description	Benefit	Pack Unit	Cat. No.
DURAN® GLS 80® blue polypropylene vented cap*	For use with magnetic stir bars. PTFE membrane vent allows gas exchange with the atmosphere, but protects from external contamination.	2	11 601 68
NEW DURAN® Stirred reactor wide mouth cap for 250 mL bottle, GLS 80® supplied with impeller shaped magnetic stirrer, 4 connection ports (2x GL 18 and 2x GL 14)*	For use with 250 mL GLS 80® bottles. Allows the efficient mixing of the contents using a magnetic stirrer. Liquid may be added or removed via the optional tube connectors.	1	21 263 91 07
DURAN® Stirred reactor wide mouth cap for 500 or 1000 mL bottles, GLS 80® supplied with anchor shaped magnetic stirrer, 4 connection ports (2x GL 18 and 2x GL 14)*	For use with 500 or 1000 mL GLS 80® bottles. Allows the efficient mixing of the contents using a magnetic stirrer. Liquid may be added or removed via the optional tube connectors.	1	12 003 79

* Note: DURAN® baffled wide mouth bottles GLS 80® must be ordered separately.

These products are available from your specialist laboratory dealer.



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