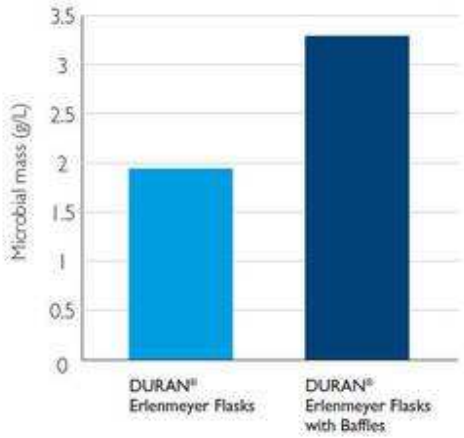
DURAN® baffled flask

with GL 45 thread

- The four bottom baffles interrupts the circular flow to create a turbulent flow. The gas exchange surface of the liquid is increased, so that the oxygen intake can be increased
- Manufactured in a fully automated process to provide totally consistent flask shapes leading to highly reproducible experimental results
- Also available completed with membrane screw cap
- Available in range of three sizes (250, 500 and 1,000 ml) for process scale up

Comparison of the produced microbial mass (experiment with E.coli bacteria):



Movement of fluid on an orbital shaker:

When cultivating microorganisms in Erlenmeyer flasks on an orbital shaker, the oxygen intake is frequently the limiting factor for cell growth. The DURAN® Erlenmeyer flask with four bottom baffles interrupts the circular flow to create a turbulent flow. The gas exchange surface of the liquid is increased, so that the oxygen intake can be increased.

Due to completely automated machine manufacturing, the Erlenmeyer flasks with baffles from the DURAN Group are geometrically reproducible. The wall thickness of the flasks has been increased to achieve excellent mechanical strength and to guarantee a long product service life. The special manufacturing process means it is possible to manufacture the product complete with threading in a two-stage process. Hence the flasks can be sealed with the proven membrane screw cap from the DURAN Group. This enables reproducible gas exchange in contrast with other closure options, such as sealing with cotton wadding or similar. The cap can be reused many times.

Ordering information:

Cat. No.	Capacity ml	d mm	h mm	Pack/ Quantity
21 283 36 5*	250	81	145	4
21 283 36	250	81	145	4
21 283 44 5*	500	105	180	4
21 283 44	500	105	180	4
21 283 54 5* NEW	1000	136	221	1
21 283 54 NEW	1000	136	221	1

* complete with membrane srew cap and pouring ring