

## 8. Shell Vials

The vials are preferentially used on instruments of the following manufacturers:  
**Alcott, Gilson, Shimadzu, Waters® (Wisp 96 respectively 48 Position Carousel)**

(Please have a look at the autosampler compatibility chart on pages 76-85 to see on which models they can be used)

- PE-Plugs of 08 14 0513/08 14 0595; 11 14 0544/11 14 0545 and 15 14 0548/15 14 0562 may be used for the fixation of a Micro-Insert; thus no springs are required for their usage.
- For the 1ml Shell Vials a plug with and one without insertion barrier for Micro-Inserts is available. The one without barrier shows a better valve effect with regard to the formation of a vacuum.
- Star-shaped diaphragm enables easy penetration of the PE-Plug.
- 08 14 1168 + 08 14 1169 with soft style plug for Waters® and Shimadzu.
- Recommended for HPLC usage.
- Shell vials and the appropriate plugs can also be supplied as a 2in1 KIT.
- A handy and inexpensive vial/closure combination for uncritical analyses.



### 8.1 Shell Vials 1ml and 4ml and appropriate Micro-Inserts



Art. No.	08 14 0641	08 14 1168*	08 14 1169*	05 09 0706	15 14 0548	15 14 0562	06 09 0651
Description	1ml Shell Vial, 35 x 7.8mm, clear glass, 1 <sup>st</sup> hydrol. class, 6mm PE-Plug, transparent, for ALCOTT	1ml Shell Vial, 40 x 8.2mm, clear glass, 1 <sup>st</sup> hydrol. class, 8mm PE-Plug, soft, without insertion barrier for Micro-Insert, transparent for Waters® Wisp 96 Pos. Carousel, Shimadzu	1ml Shell Vial, 40 x 8.2mm, amber glass, 1 <sup>st</sup> hydrol. class, 8mm PE-Plug, soft, without insertion barrier for Micro-Insert, transparent for Waters® Wisp 96 Pos. Carousel, Shimadzu	0.1ml Micro-Insert, 34 x 5mm, clear glass, 1 <sup>st</sup> hydrol. class, 13mm top  (only in comb. with 08 14 0513 + 08 14 0595)	4ml Shell Vial, 44.6 x 14.65mm, clear glass, 1 <sup>st</sup> hydrol. class, 15mm PE-Plug, transparent for Waters® Wisp 48 Pos. Carousel	4ml Shell Vial, 44.6 x 14.65mm, amber glass, 1 <sup>st</sup> hydrol. class, 15mm PE-Plug, transparent for Waters® Wisp 48 Pos. Carousel	0.3ml Micro-Insert, 43.45 x 6mm, clear glass, 1 <sup>st</sup> hydrol. class, 13mm top
TFVol. (ml)	1.1	1.4	1.4	0.2	5.5	5.5	0.4
UsVol. (ml)	0.8	1	1	0.15	4	4	0.3
MWVol. (µl)	60	100	100	25	1000	1000	50
Res. Vol. (µl)	<25	<80	<80	<0.1	<800	<800	<8
	100 pcs. per PP-Box (Vials) / 100 pcs. per PE-Bag (Plugs)			10 x 100 pcs. per PP-Box	100 pcs. per PP-Box (Vials) / 100 pcs. per PE-Bag (Plugs)		10 x 100 pcs. per PP-Box

\*In case a Micro-Insert is used in combination with the shell vial, please use 08 14 0513 respectively 08 14 0595, as they have an insertion barrier for Micro-Inserts. However, please note that flexibility of the plug with insertion barrier is reduced, so that pushing of the plug into the vial as well as penetration is more difficult.