











## Manual Syringes

Agilent color-coded manual syringes allow you to determine syringe volume with one quick glance, so you can more efficiently perform manual dilution, extraction, and sample prep. They also give you the advantages of:

- Improved scale readability with a new vertical syringe scale orientation for more intuitive use
- A wide selection of volumes, making Agilent your "one-stop" resource for all of your sample manipulation needs
- Accuracy within  $\pm 1\%$  of nominal volume, and precision within 1%, measured at 80% of total scale volume
- Earth-friendly cardboard and plastic packaging that could be recycled to help reduce landfill waste
- A Certificate of Conformance to ensure the highest quality construction and performance, available for viewing and printing anytime
- Lot-traceable for accurate identification

Of course, all Agilent syringes are backed by over 40 years of chromatography expertise, industry-leading technical support, and a 90-day warranty from the date of shipment.

### Manual Syringes Color Code Chart

									
<b>0.5 <math>\mu</math>L</b>	<b>1.0 <math>\mu</math>L</b>	<b>2.0 <math>\mu</math>L</b>	<b>5.0 <math>\mu</math>L</b>	<b>10 <math>\mu</math>L</b> <b>1.0 mL</b>	<b>25 <math>\mu</math>L</b> <b>2.5 mL</b>	<b>50 <math>\mu</math>L</b> <b>5.0 mL</b>	<b>100 <math>\mu</math>L</b> <b>10.0 mL</b>	<b>250 <math>\mu</math>L</b> <b>25.0 mL</b>	<b>500 <math>\mu</math>L</b> <b>50.0 mL</b>



Manual syringe, 1.0  $\mu$ L, RN cone tip, 5190-1463

**Manual Syringes with Fitted Plunger, Fixed and Removable Needle, 0.5 to 5  $\mu$ L**

Volume ( $\mu$ L)	Description	Unit Needle	Part No.
0.5	Plunger in needle, removable	23/70 mm/cone tip	5190-0464
	Replacement needle and plunger kit for 0.5 $\mu$ L syringe		5190-1461
	Plunger in needle, removable	23/70 mm/bevel tip	5190-1460
	Replacement needle and plunger kit for 0.5 $\mu$ L syringe		5190-1462
1.0	Plunger in needle, removable	26/70 mm/cone tip	5190-1463
	Replacement needle and plunger kit for 1.0 $\mu$ L syringe		5190-1467
	Plunger in needle, removable	26/70 mm/bevel tip	5190-1466
	Replacement needle and plunger kit for 1.0 $\mu$ L syringe		5190-1470
	Plunger in needle, removable	23/70 mm/cone tip	5190-1464
	Replacement needle and plunger kit for 1.0 $\mu$ L syringe		5190-1468
	Plunger in needle, removable	23/70 mm/bevel tip	5190-1465
	Replacement needle and plunger kit for 1.0 $\mu$ L syringe		5190-1469
2.0	Plunger in needle, removable	23/70 mm/cone tip	5190-1471
	Replacement needle and plunger kit for 2.0 $\mu$ L syringe		5190-1473
	Plunger in needle, removable	26/70 mm/bevel tip	5190-1472
	Replacement needle and plunger kit for 2.0 $\mu$ L syringe		5190-1474
5.0	Plunger in needle, removable	23/70 mm/cone tip	5190-1475
	Replacement needle and plunger kit for 5.0 $\mu$ L syringe		5190-1477
	Plunger in needle, removable	23/70 mm/bevel tip	5190-1476
	Replacement needle and plunger kit for 5.0 $\mu$ L syringe		5190-1478
	Straight, fixed	26/50 mm/bevel tip	5190-1479
	Removable, with flexible plunger	26/50 mm/bevel tip	5190-1481
	Replacement needle for 5.0 $\mu$ L syringe	3/pk	5190-1482

**Manual Syringes with Fitted Plunger, Fixed and Removable Needle, 10 to 500 µL**

Volume (µL)	Description	Unit	Needle	Part No.
10	Fixed		26/50 mm/bevel tip	5190-1483
	Fixed	10/pk	26/50 mm/bevel tip	5190-1487
	Fixed, with flexible plunger		26/50 mm/bevel tip	5190-1488
	Fixed, with flexible plunger	6/pk	26/50 mm/bevel tip	5190-1489
25	Fixed		25/50 mm/bevel tip	5190-1493
	Removable		25/50 mm/bevel tip	5190-1495
	Replacement needle	3/pk		5190-1496
50	Fixed		25/50 mm/bevel tip	5190-1500
	Removable		25/50 mm/bevel tip	5190-1502
	Replacement needle	3/pk		5190-1496
100	Fixed		25/50 mm/bevel tip	5190-1507
	Removable		25/50 mm/bevel tip	5190-1509
	Replacement needle	3/pk		5190-1496
250	Fixed		25/50 mm/bevel tip	5190-1514
	Removable		25/50 mm/bevel tip	5190-1516
	Replacement needle	3/pk		5190-1496
500	Fixed		25/50 mm/bevel tip	5190-1521
	Removable		25/50 mm/bevel tip	5190-1524
	Replacement needle	3/pk		5190-1496



Manual syringe, 50 µL, FN bevel tip, 5190-1500



**Manual Syringes with PTFE-Tipped Plunger, Removable Needle, 10 to 500 µL**

Volume (µL)	Description	Unit	Needle	Part No.
10	Removable		25/50 mm/bevel tip	5190-1491
	Replacement needle	3/pk		5190-1496
	Replacement plunger with PTFE tip for 10 µL syringe			5190-1559
25	Removable		25/50 mm/bevel tip	5190-1498
	Replacement needle	3/pk		5190-1496
	Replacement plunger with PTFE tip for 25 µL syringe			5190-1560
50	Removable		25/50 mm/bevel tip	5190-1504
	Replacement needle	3/pk		5190-1496
	Replacement plunger with PTFE tip for 50 µL syringe			5190-1561
100	Removable		25/50 mm/bevel tip	5190-1511
	Replacement needle	3/pk		5190-1496
	Replacement plunger with PTFE tip for 100 µL syringe			5190-1562
250	Removable		25/50 mm/bevel tip	5190-1518
	Replacement needle	3/pk		5190-1496
	Replacement plunger with PTFE tip for 250 µL syringe			5190-1563
500	Removable		25/50 mm/bevel tip	5190-1525
	Replacement needle	3/pk		5190-1496
	Replacement plunger with PTFE tip for 500 µL syringe			5190-1564



**Manual Syringes with PTFE-Tipped Plunger, Fixed Needle, 10 to 500  $\mu$ L**

Volume ( $\mu$ L)	Description	Needle	Part No.
10	Fixed	26/50 mm/bevel tip	5190-1490
	Replacement plunger with PTFE tip for 10 $\mu$ L syringe		5190-1558
25	Fixed	25/50 mm/bevel tip	5190-1497
	Replacement plunger with PTFE tip for 25 $\mu$ L syringe		5190-1560
50	Fixed	25/50 mm/bevel tip	5190-1503
	Replacement plunger with PTFE tip for 50 $\mu$ L syringe		5190-1561
100	Fixed	25/50 mm/bevel tip	5190-1510
	Replacement plunger with PTFE tip for 100 $\mu$ L syringe		5190-1562
250	Fixed	25/50 mm/bevel tip	5190-1517
	Replacement plunger with PTFE tip for 250 $\mu$ L syringe		5190-1563
500	Fixed	25/50 mm/bevel tip	5190-1523
	Replacement plunger with PTFE tip for 500 $\mu$ L syringe		5190-1564

**Manual Syringes with PTFE-Tipped Plunger, Removable Needle, 1 mL to 10 mL**

Volume (mL)	Description	Unit	Needle	Part No.
1.0	Removable		23/50 mm/bevel tip	5190-1529
	Replacement needle	3/pk		5190-1581
	Replacement plunger with PTFE tip for 1 mL syringes			5190-1565
2.5	Removable		23/50 mm/bevel tip	5190-1533
	Replacement needle	3/pk		5190-1581
	Replacement plunger with PTFE tip for 2.5 mL syringes			5190-1572
5.0	Removable		23/50 mm/bevel tip	5190-1537
	Replacement needle	3/pk		5190-1538
	Replacement plunger with PTFE tip for 5 mL syringes			5190-1573
10	Removable		23/50 mm/bevel tip	5190-1542
	Replacement needle	3/pk		5190-1538
	Replacement plunger with PTFE tip for 10 mL syringes			5190-1574



Manual syringe, 500  $\mu$ L, FN bevel tip, 5190-1523



Manual syringe, 1 mL, FN bevel tip, 5180-1528

**Manual Syringes with PTFE-Tipped Plunger, Fixed Needle, 1 mL to 10 mL**

Volume (mL)	Description	Needle	Part No.
1.0	Fixed	22/50 mm/bevel tip	5190-1528
	Replacement plunger with PTFE tip for 1 mL syringes		5190-1565
2.5	Fixed	22/50 mm/bevel tip	5190-1532
	Replacement plunger with PTFE tip for 2.5 mL syringes		5190-1572
5.0	Fixed	22/50 mm/bevel tip	5190-1536
	Replacement plunger with PTFE tip for 5 mL syringes		5190-1573
10	Fixed	22/50 mm/bevel tip	5190-1541
	Replacement plunger with PTFE tip for 10 mL syringes		5190-1574

**Manual Syringe with PTFE-Tipped Plunger and Luer Lok, 50 to 500 µL**

Volume (µL)	Description	Needle	Part No.
50	Luer Lok	Luer Lok/50 mm or 2 in	5190-1506
	Replacement plunger with PTFE tip for 50 µL syringe		5190-1561
100	Luer Lok	Luer Lok/50 mm or 2 in	5190-1513
	Replacement plunger with PTFE tip for 100 µL syringe		5190-1562
250	Luer Lok	Luer Lok/50 mm or 2 in	5190-1519
	Replacement plunger with PTFE tip for 250 µL syringe		5190-1563
500	Luer Lok	Luer Lok/50 mm or 2 in	5190-1527
	Replacement plunger with PTFE tip for 500 µL syringe		5190-1564



**Manual Syringe with PTFE-Tipped Plunger and Luer Lok, 1 to 50 mL**

Volume (mL)	Description	Needle	Part No.
1.0	Luer Lok	Luer Lok/50 mm or 2 in	5190-1530
	Luer Lok valve	Luer Lok valve/50 mm or 2 in	5190-1531
	Replacement plunger with PTFE tip for 1 mL syringes		5190-1565
2.5	Luer Lok	Luer Lok/50 mm or 2 in	5190-1534
	Luer Lok valve	Luer Lok valve/50 mm or 2 in	5190-1535
	Replacement plunger with PTFE tip for 2.5 mL syringes		5190-1572
5.0	Luer Lok	Luer Lok/50 mm or 2 in	5190-1539
	Luer Lok valve	Luer Lok valve/50 mm or 2 in	5190-1540
	Replacement plunger with PTFE tip for 5 mL syringes		5190-1573
10	Luer Lok	Luer Lok/50 mm or 2 in	5190-1457
	Luer Lok valve	Luer Lok valve/50 mm or 2 in	5190-1543
	Replacement plunger with PTFE tip for 10 mL syringes		5190-1574
25	Luer Lok	Luer Lok/50 mm or 2 in	5190-1544
	Replacement plunger with PTFE tip for 25 mL syringe		5190-1575
	Luer Lok valve	Luer Lok valve/50 mm or 2 in	5190-1545
	Replacement plunger with PTFE tip for 25 mL syringe		5190-1576
50	Luer Lok	Luer Lok/50 mm or 2 in	5190-1546
	Luer Lok valve	Luer Lok valve/50 mm or 2 in	5190-1547
	Replacement plunger with PTFE tip for 50 mL syringes		5190-1577



Luer Lok valve, 5190-1531



Luer Lok, 5190-1534



Luer Lok valve, 5190-1543

**Luer Lok and Luer Lok Valve Needles**

Description	Unit	Needle	Part No.
Luer Lok needle	3/pk	23/50/bevel tip	5190-1548
Luer Lok needle	3/pk	23/50/sidehole tip	5190-1549
Luer Lok needle	3/pk	22/51/LC tip	5190-1550



Syringe, 100 µL FN LC tip, 5190-1508

**LC Manual Syringes with Fitted Plungers**

Volume (µL)	Description	Unit	Needle	Part No.
5	Fixed		22 gauge/2 in/LC tip	5190-1480
10	Fixed		22 gauge/2 in/LC tip	5190-1484
	Removable		22 gauge/2 in/LC tip	5190-1485
	Replacement needle for 10 µL syringe	3/pk		5190-1486
25	Fixed		22 gauge/2 in/LC tip	5190-1494
50	Fixed		22 gauge/2 in/LC tip	5190-1501
100	Fixed		22 gauge/2 in/LC tip	5190-1508
250	Fixed		22 gauge/2 in/LC tip	5190-1515
500	Fixed		22 gauge/2 in/LC tip	5190-1522

**LC Manual Syringes with PTFE-Tipped Plungers**

Volume (µL)	Description	Unit	Needle	Part No.
10	Removable		22 gauge/2 in/LC tip	5190-1492
	Replacement needle for 10 µL syringe	3/pk		5190-1486
	Replacement plunger with PTFE tip for 10 µL syringe			5190-1558
25	Removable		22 gauge/2 in/LC tip	5190-1499
	Replacement needle	3/pk		5190-1571
	Replacement plunger with PTFE tip for 25 µL syringe			5190-1560
50	Removable		22 gauge/2 in/LC tip	5190-1505
	Replacement needle	3/pk		5190-1571
	Replacement plunger with PTFE tip for 50 µL syringe			5190-1561
100	Removable		22 gauge/2 in/LC tip	5190-1512
	Replacement needle	3/pk		5190-1571
	Replacement plunger with PTFE tip for 100 µL syringe			5190-1562
250	Removable		22 gauge/2 in/LC tip	5190-1520
	Replacement needle	3/pk		5190-1571
500	Removable		22 gauge/2 in/LC tip	5190-1526
	Replacement needle	3/pk		5190-1571
	Replacement plunger with PTFE tip for 500 µL syringe			5190-1564