



## Agilent Bioreagent Components for Processing Microarrays

### Gene Expression and miRNA Reagents

Part Number	Description
5185-6000	<b>Total RNA Isolation Mini Kit (50)</b> Contains reagents, mini-pretreatment columns, mini-isolation columns, and final nuclease-free collection tubes for 50 total RNA isolations from mammalian cells ( $5 \times 10^5$ – $5 \times 10^6$ ), tissues (2.5 – 30 mg), yeast ( $10^7$ ) and bacteria ( $10^8$ ).
5188-2780	<b>Plant RNA Isolation Mini Kit (50)</b> Contains reagents, mini-pretreatment columns, mini-isolation columns, and final nuclease-free collection tubes for 50 total RNA isolations from a wide range of species and tissue types. <sup>1</sup>
5190-2305	<b>Low Input Quick Amp Labeling Kit, one-color</b> Contains Cyanine 3-CTP and enzyme kit to amplify and label RNA for oligo microarrays. Uses 25 – 200 ng total RNA input. Kit is sufficient for 24 reactions. Low Input Quick Amp Labeling Kit with Cyanine 5-CTP is also available (Part Number 5190-2307).
5190-2306	<b>Low Input Quick Amp Labeling Kit, two-color</b> Contains Cyanine 3-CTP, Cyanine 5-CTP, and enzyme kit to amplify and label RNA for oligo microarrays. Uses 25 – 200 ng total RNA input. Kit is sufficient for 48 reactions, 24 with each dye.
5190-2308	<b>Low Input Quick Amp Labeling Kit, no dye</b> Contains enzyme kit to amplify and label RNA for oligo microarrays. Uses 25 – 200 ng total RNA input. Kit is sufficient for 24 reactions. This product does not contain Cyanine CTP.
5190-0442	<b>Quick Amp Labeling Kit, one-color</b> Contains Cyanine 3-CTP and enzyme kit to amplify and label RNA for oligo microarrays. Uses 200 ng – 1 µg total RNA input. Kit is sufficient for 20 reactions. Low Input Quick Amp Labeling Kit with Cyanine 5-CTP is also available (Part Number 5190-2307).
5190-0444	<b>Quick Amp Labeling Kit, two-color</b> Contains Cyanine 3-CTP, Cyanine 5-CTP, and enzyme kit to amplify and label RNA for oligo microarrays. Uses 50 ng – 2 µg total RNA input. Kit is sufficient for 20 reactions, 10 with each dye.
5190-0447	<b>Quick Amp Labeling Kit, no dye</b> Contains enzyme kit to amplify and label RNA for oligo microarrays. Uses 25 – 200 ng total RNA input. Kit is sufficient for 20 reactions. This product does not contain Cyanine CTP.
5188-5282	<b>One-Color RNA Spike-in Kit</b> Contains dilution buffer and a pre-mixed cocktail in a predetermined ratio-generating concentration to serve as a positive microarray control. Kit sufficient for at least 200 microarray hybridizations.
5188-5279	<b>Two-Color RNA Spike-in Kit</b> Contains dilution buffer and two pre-mixed cocktails in predetermined ratio-generating concentrations that serve as positive microarray controls. Kit sufficient for at least 200 microarray hybridizations.
5188-5242	<b>Gene Expression Hybridization Kit</b> Contains 2X Hi-RPM Hybridization Buffer, 25X Fragmentation Buffer, and 10X Gene Expression Blocking Agent for at least 10 slides.
5190-0404	<b>Hi-RPM Gene Expression Hybridization Kit, Large Volume</b> Contains 2X Hi-RPM Gene Expression Hybridization Buffer, 25X Fragmentation Buffer, and 10X Gene Expression Blocking Agent for at least 100 slides. Components may be purchased separately.



## Gene Expression and miRNA Reagents (continued)

Part Number	Description
5188-5325	Gene Expression Wash Buffer 1
	Contains wash buffer 1 packaged in 4L container. Sufficient for 80 slides.
5188-5326	Gene Expression Wash Buffer 2
	Contains wash buffer 2 packaged in 4L container. Sufficient for 80 slides.
5188-5327	Gene Expression Wash Buffer Kit
	Contains two 5188-5325 (Gene Expression Wash Buffer 1, 4L each), one 5188-5326 (Gene Expression Wash Buffer 2, 4L) and Triton X-102 detergent additive. Kit contains sufficient wash buffer for up to 80 slides. Wash buffers may be purchased separately.
5185-5979	Stabilization and Drying Solution, 500 mL
	Contains reagent that prevents ozone-induced degradation of cyanine dyes during processing and scanning of Agilent oligo-based microarrays. Sufficient stabilization and drying solution for up to 50 gene expression slides. Customer must purchase the following to use this product with oligo aCGH arrays: Acetonitrile (Sigma-Aldrich 271004-1L).
5190-0456	miRNA Complete Labeling and Hybridization Solution
	Contains a novel Cyanine 3-nucleotide along with all necessary array labeling and hybridization reagents. Contains sufficient reagents to label and hybridize 24 microarrays. Kit contents include T4 RNA Ligase, Calf Intestinal Phosphatase, Cyanine 3-pCp, Hi-RPM Hybridization Buffer, DMSO, and associated buffers.
750700	Universal miRNA Reference Kit
	High-quality human total RNA for miRNA and gene expression profiling on microarray and QPCR platforms. Comprised of 9 different tissues and cell lines for broad gene and miRNA coverage on human microarrays. Contains: 1 tube x 10 µg, in storage buffer, 10uL.
740000	Universal Human Reference RNA
	High-quality total RNA for human, mouse and rat microarray gene-expression profiling. Comprised of 10 cell lines for human, 11 for mouse, and 14 for rat giving broad gene coverage. Not for use with miRNA experiments. Contains 2 tubes x 200 µg each, RNase-free water, 1.5 mL.
5190-1934	microRNA Spike-In Kit
	Includes 2 vials of spike in controls (one labeling spike-in vial and one hybridization spike-in vial) and 2 vials of dilution buffer. Kit is sufficient for 384 reactions. Kit is to be used with miRNA Complete Labeling and Hyb Kit (part Number 5190-0456).

## 2100 Bioanalyzer RNA and DNA Kits

Part Number	Description
5067-1511	Agilent RNA 6000 Nano Kit
	For the analysis and quantitation of total and mRNA samples of 25 to 500 ng/µL in concentration. The kit includes microfluidic chips, reagents and consumables sufficient for 300 samples.
5067-1513	Agilent RNA 6000 Pico Kit
	For the analysis of low concentrated RNA samples down to 50 pg/µL of total RNA or 250 pg/µL of mRNA. The kit includes microfluidic chips, reagents and consumables sufficient for 275 samples.
5067-1548	Agilent Small RNA Kit
	For the analysis and quantitation of small RNA samples of 6 and 150 nt in size and 50 to 2000 pg/µL in concentration. The kit includes microfluidic chips, reagents and consumables sufficient for 275 samples.
5067-1504	Agilent DNA 1000 Kit
	For the sizing and quantitation of dsDNA fragments from 25 to 1000bp. The kit includes microfluidics chips, reagents, and consumables sufficient for 300 samples.
5067-1506	Agilent DNA 7500 Kit
	For the sizing and quantitation of dsDNA fragments from 100 to 7500bp. The kit includes microfluidics chips, reagents, and consumables sufficient for 300 samples.
5067-1508	Agilent DNA 12000 Kit
	For the sizing and quantitation of dsDNA fragments from 100 to 12000bp. The kit includes microfluidics chips, reagents, and consumables sufficient for 300 samples.
5067-4626	Agilent High Sensitivity DNA Kit
	For the sizing and quantitation of dsDNA fragments from 50 to 7000bp. The kit includes microfluidics chips, reagents, and consumables sufficient for 110 samples.

## CGH, ChIP-on-Chip, and DNA Methylation Reagents

Part Number	Description
5190-0449	<b>Genomic DNA Enzymatic Labeling Kit</b> Contains Cyanine 3- and Cyanine 5-dUTP and reagents to label genomic DNA for Oligo aCGH microarrays. Kit is sufficient for 50 reactions (or 100 reactions for the 8-pack). Customer must purchase the following to purify the labeled DNA: Amicon Ultra-0.5, Ultracel-30 Membrane, 30 kDa filter units (Millipore part numbers UFC503008, UFC503024, UFC503096 or UFC5030BK) or AutoScreen-96A well plates (GE Healthcare part number 25-9005-98).
5190-0450	<b>Genomic DNA High-Throughput ULS Labeling Kit</b> Genomic DNA labeling kit validated and optimized for DNA isolated from FFPE, cells, blood, and tissue. Contains sufficient two-color labeling reaction reagents for 16 — 1-pack, 24 — 2-pack, 48 — 4-pack, and 96 — 8-pack microarrays. Customers should purchase either the Genomic DNA Purification Module (5190-0418) or the Genomic DNA 96-well Purification Module (5190-0451) to purify the labeled genomic DNA.
5190-0419	<b>Genomic DNA ULS Labeling Kit</b> Genomic DNA labeling kit validated and optimized for DNA isolated from FFPE, cells, blood, and tissue. Contains sufficient two-color labeling reaction reagents for 5 microarray slides of the formats 1-pack, 2-pack, 4-pack or 8-pack. Contains sufficient purification columns for processing 5 — 1-pack microarrays. Additional columns and tubes should be ordered separately when using multi-pack microarrays (5190-0418).
5190-0451	<b>Genomic DNA 96-well Purification Module</b> Used for ULS-labeled genomic DNA purification. Contents include 1 96-well purification plate, 1 wash plate, and 1 collection plate.
5190-0418	<b>Genomic DNA Purification Module</b> Used for ULS-labeled genomic DNA purification. Contents include 10 purification columns and 10 collection tubes.
5188-5220	<b>Oligo aCGH/ChIP-on-Chip Hybridization Kit (25)</b> Contains 2X Hi-RPM Hybridization Solution and 10X Blocking Agent for 25 slides. Customer must purchase the following to prepare hybridization solution: Human Cot-1 DNA (Invitrogen part numbers 15279-011 or 15279-101 and Kreatech part number EA-020) or Mouse Cot-1 DNA (Invitrogen part number 18440-016) or Rat Hybloc (Applied Genetics part number RHB). DNase/RNase-Free Distilled Water (Invitrogen part number 10977-015).
5188-5380	<b>Oligo aCGH/ChIP-on-Chip Hybridization Kit, Large Volume</b> Contains 2X Hi-RPM Hybridization Solution and 10X CGH Blocking Agent for 100 slides. Customer must purchase the following to prepare hybridization solution: Human Cot-1 DNA (Invitrogen part numbers 15279-011 or 15279-101 and Kreatech part number EA-020) or Mouse Cot-1 DNA (Invitrogen part number 18440-016) or Rat Hybloc (Applied Genetics part number RHB). DNase/RNase-Free Distilled Water (Invitrogen part number 10977-015).
5188-5221	<b>Oligo aCGH/ChIP-on-Chip Wash Buffer 1, 4L</b> Contains wash buffer (Buffer 1) packaged in 4L container. Sufficient for 20 slides.
5188-5222	<b>Oligo aCGH/ChIP-on-Chip Wash Buffer 2, 4L</b> Contains wash buffer (Buffer 2) packaged in 4L container. Sufficient for 40 slides.
5188-5226	<b>Oligo aCGH Wash Buffer Kit</b> This kit contains Oligo aCGH Wash Buffer 1 (4L, part number 5188-5221) and Oligo Wash Buffer 2 (4L, part number 5188-5222). This kit is available in two configurations: Option 1 for manual processing contains 2 containers of Wash Buffer 1 and 1 container of Wash Buffer 2. The kit is sufficient for processing up to 40 oligo aCGH slides. Option 2 for Tecan processing contains 1 container of Wash Buffer 1 and 2 containers of Wash Buffer 2. The kit is sufficient for processing up to 120 oligo aCGH slides.
5190-0402	<b>Oligo aCGH Prehybridization Buffer, 4L</b> For use in Tecan processing protocols only. Sufficient prehybridization buffer for approximately 120 slides when processed on the Tecan HS 400 Pro or HS 4800 Pro with compatible hybridization chambers.
5190-0401	<b>Wash Buffer Additive</b> For use in Tecan processing protocols only. Solution is used to prepare Conditioning Solution and Wash Buffer 2 for processing oligo aCGH arrays on the Tecan HS 400 Pro or HS 4800 Pro with compatible hybridization chambers. Sufficient for approximately 120 slides.
5185-5979	<b>Stabilization and Drying Solution, 500 mL</b> Contains reagent that prevents ozone-induced degradation of cyanine dyes during processing and scanning of Agilent oligo-based microarrays. Sufficient reagent for up to 25 oligo aCGH slides. Customer must purchase the following to use this product with oligo aCGH arrays: Acetonitrile (Sigma-Aldrich 271004-1L).

#### About Agilent Technologies

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