



DIAGNOSTIC TESTS, CHARGES and CPT CODES

| ASSAY | COST | CPT CODES |
|--|------------------|---|
| 22q13 Custom Array | \$1650.00 | 83890, 88386 (x4), 88291 |
| 3-Methylcrotonylglycinuria I (MCCCI) (unknown mutation) | \$1000.00 | 83890, 83898 (x4), 83904 (x5), 83909 (x5), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| 3-Methylcrotonylglycinuria II (MCCC2) (unknown mutation) | \$1000.00 | 83890, 83898 (x4), 83904 (x5), 83909 (x5), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Aarskog syndrome (FGDI) (unknown mutation) | \$1800.00 | 83890, 83898, (x10), 83904 (x7), 83909 (x7), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Acetylcholinesterase – Amniotic Fluid | \$72.00 | 82013 |
| Acylcarnitine Profile | \$154.00 | 82017 |
| Allan-Herndon-Dudley syndrome (MCT8) (unknown mutation) | \$1200.00 | 83890, 83894(x4),83898(x6),83904(x6),83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Alpha-fetoprotein - Amniotic Fluid | \$48.00 | 82106 |
| Alpha-fetoprotein – Serum | \$48.00 | 82105 |
| Alpha-thalassemia X-Linked MR (ATRX) (unknown mutation) | \$1800.00 | 83890, 83898 (x10), 83904 (x7), 83909 (x7), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Amino acids – Plasma/Serum | \$231.00 | 82139 |
| Amino acids – Spinal Fluid | \$231.00 | 82139 |
| Amino acids – Urine | \$231.00 | 82139 |
| Aminoglycoside-induced hearing loss | \$200.00 | 83890, 83898, 83912 |
| AML1/ETO – t(8:21) (Interphase) * | \$530.00 | 88275, 88271 (x2), 88291 |
| Angelman syndrome Methylation | \$350.00 | 83890, 83892 (x2), 83894, 83896 (x2), 83912 |
| FISH | \$536.00 | 88274, 88271, 88273, 88291 |
| Uniparental disomy (15q11q13) | \$500.00 | 83890, 83898 (x3), 83909 (x2), 83912 |
| UBE3A | \$1800.00 | 83890, 83898 (x12), 83904 (x5), 83909 (x5), 83912 |
| X-linked Angelman/Christianson syndrome (SLC9A6) | \$1800.00 | 83890, 83898 (x12), 83904 (x5), 83909 (x5), 83912 |
| | | |

| | | |
|--|-----------|--|
| Angelman/Rett syndrome 2 nd tier panel (<i>CDKL5, FOXP1, SLC9A6, TCF4 and UBE3A</i>) | \$4500.00 | 83890,83898(x22), 83904(x22),83909(x22), 83912 |
| ARX-Related Spectrum of X-Linked MR (unknown mutation) | \$900.00 | 83890, 83898 (x4), 83904 (x4), 83909 (x4), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Autism (dup15) FISH | \$536.00 | 88274,88271,88273,88291 |
| BCL6 (3q27) FISH Hematologic/Oncology Study* | \$530.00 | 88275, 88271 (x2), 88291 |
| BCR/ABL – t(9;22) (Interphase)* | \$530.00 | 88275, 88271 (x2), 88291 |
| Biotinidase deficiency (<i>BTD</i>) (unknown mutation) | \$800.00 | 83890, 83898 (x4), 83904 (x3), 83909 (x3), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Biotinidase enzyme analysis | \$150.00 | 82261 |
| Bone marrow chromosomes | \$890.00 | 88237, 88264, 88280 (x2), 88291 |
| Bone marrow & stim/unstim blood | \$1190.00 | 88237 (x2), 88264, 88280 (x2), 88291 |
| Stimulated/unstimulated blood | \$890.00 | 88237, 88264, 88280 (x2), 88291 |
| Lymph Node (unfixed) | \$932.00 | 88233, 88264, 88280 (x2), 88291 |
| C5-DC (glutaryl carnitine) | \$60.00 | 82017,83788,82570 |
| Cardio-Facio-Cutaneous (CFC) syndrome | | |
| Tier 1: <i>BRAF</i> full sequencing | \$2000.00 | 83890, 83898(x11), 83904(x8), 83909(x8),83912 |
| Tier 2: <i>MAP2K1</i> and <i>MAP2K2</i> full sequencing | \$1500.00 | 83890, 83898(x8), 83904(x6), 83909(x6),83912 |
| Tier 3: <i>KRAS</i> full sequencing | \$500.00 | 83890, 83898(x2), 83904(x2), 83909(x2),83912 |
| Full Panel | \$4000.00 | 83890, 83898(x20), 83904(x19), 83909(x19), 83912 |
| Known mutation | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Carnitine, total, and free | \$120.00 | 82379 |
| CBFB Fish Hematologic/Oncology Study* | \$530.00 | 88275, 88271 (x2), 88291 |
| CDG transferrin isoelectric focusing | \$120.00 | 82373 |
| CDKL5-Related Atypical Rett Syndrome (<i>STK9</i>) | | |
| (known mutation) | \$2000.00 | 83890, 83898 (x11), 83904 (x8), 83909 (x8), 83912 |
| | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| CGH Oligo-Microarray* | \$1650.00 | 83890, 88386 (x4), 88291 |
| CHARGE (<i>CHD7</i>) | | |
| (unknown mutation) | \$2400.00 | 83890, 83898 (x13), 83904 (x10), 83909 (x10), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Christianson syndrome / X-linked Angelman-like phenotype (<i>SLC9A6</i>) | \$1800.00 | 83890,83898(x12),83904(x5),83909(x5),83912 |
| Chromosomal Studies | | |
| Routine blood chromosomes | \$602.00 | 88230, 88262, 88291 |
| Routine blood chromosomes, rule out mosaic | \$750.00 | 88230, 88263, 88285 (x5), 88291 |
| High resolution blood chromosomes | \$794.00 | 88230, 88262, 88289, 88291 |
| High resolution blood chromosomes, rule out mosaic | \$947.00 | 88230, 88263, 88285 (x2), 88289, 88291 |
| Chorionic villus chromosomes | \$992.00 | 88235, 88267, 88280, 88285, 88291 |
| Amniotic fluid chromosomes | \$944.00 | 88235, 88269, 88280, 88285, 88291 |
| +AF-AFP | \$48.00 | 82106 |
| +Acetylcholinesterase (AChE) | \$72.00 | 82013 |

| | | |
|--|-----------|--|
| Chromosomal Studies (cont.) | | |
| Trisomy FISH screen (13,18,21,X,Y) | \$1094.00 | 88235, 88275, 88271 (x4), 88291 |
| Solid tissue chromosomes | \$704.00 | 88233 (per sample), 88262, 88291 |
| Chromosome 14 (UPD analysis) | \$500.00 | 83890, 83898 (x3), 83909 (x2), 83912 |
| c-myc (8q24) FISH Hematologic/Oncology Study* | \$404.00 | 88275, 88271, 88291 |
| Coffin-Lowry syndrome (unknown mutation) | \$1800.00 | 83890, 83898, (x10), 83904 (x7), 83909 (x7), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Congenital Disorder of Glycosylation 1a (<i>PMM2</i>) | \$1400.00 | 83890, 83898 (x7), 83904 (x6), 83909 (x6), 83912 |
| (unknown mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| (known mutation) | | |
| Congenital Disorder of Glycosylation 1b (<i>MPI</i>) | \$1400.00 | 83890, 83898 (x7), 83904 (x6), 83909 (x6), 83912 |
| (unknown mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| (known mutation) | | |
| Congenital Disorder of Glycosylation 1c (<i>ALG6</i>) | \$1400.00 | 83890, 83898 (x7), 83904 (x6), 83909 (x6), 83912 |
| (unknown mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| (known mutation) | | |
| Congenital Disorder of Glycosylation enzyme analysis | | |
| Type 1a | \$150.00 | 82657 |
| Type 1b | \$150.00 | 82657 |
| Type 1a/1b | \$300.00 | 82657 (x2) |
| Connexin 26 (<i>GJB2</i>) | \$500.00 | 83890, 83898 (x2), 83904 (x4), 83912 |
| Costello syndrome | | |
| Tier 1: <i>HRAS</i> exon 1 | \$300.00 | 83890, 83898, 83904, 83909, 83912 |
| Tier 2: <i>HRAS</i> exons 2-4 | \$400.00 | 83890, 83898, 83904(x3), 83909, 83912 |
| Full panel | \$700.00 | 83890, 83898(x3), 83904(x5), 83909, 83912 |
| Known mutation | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Creatine Biosynthesis testing- urine (creatine/creatinine/GAA) | \$120.00 | 82570, 82540, 82543 |
| Creatine Biosynthesis testing – plasma (creatine/GAA) | \$108.00 | 82540, 82543 |
| Creatine Transporter Deficiency (<i>SLC6A8</i>) | | |
| (unknown mutation) | \$1800.00 | 83890, 83898 (x10), 83904 (x7), 83909 (x7), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Creatine Transporter Deficiency - urine (creatine/creatinine) | \$60.00 | 82570, 82540 |
| Creatine kinase | \$48.00 | 82550 |
| Cri du chat syndrome (5p-) FISH peripheral blood* | \$356.00 | 88274, 88271, 88291 |
| Culture fees (If no chromosomes requested) | | |
| Amniotic fluid/CVS | \$312.00 | 88235 |
| Blood | \$240.00 | 88230 |
| Bone marrow | \$300.00 | 88237 |
| Solid tissue | \$342.00 | 88233 |

| | | |
|--|---|--|
| Cystic Fibrosis (CFTR) | \$300.00 | 83909, 83914 (x10), 83912 |
| D20S108 FISH Hematologic/ Oncology Study* | \$404.00 | 88275, 88271, 88291 |
| D7s486 (7q31) FISH Hematologic/ Oncology Study* | \$404.00 | 88275, 88271, 88291 |
| DiGeorge/VCF syndrome (22q11) FISH peripheral blood* | \$536.00 | 88274, 88271, 88273, 88291 |
| Duchenne/ Becker muscular dystrophy - MLPA | \$500.00 | 83890, 83892, 83900, 83901(x10), 83909, 83912 |
| Ectrodactyly-Ectoderman Dysplasia-Clefting syndrome (P63) (unknown mutation) | \$1200.00 | 83890, 83898 (x6), 83904 (x5), 83909 (x5), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| EGR-1 (5q31) FISH Hematologic/Oncology Study* | \$404.00 | 88275, 88271, 88291 |
| Estriol | \$36.00 | 82677 |
| FG syndrome (MED12) Tier 1: Exons 4, 5, 21, 22, 28, 36 Tier 2: RNA full sequence Tier 1 and Tier 2 | \$800.00 \$1600.00 \$2400.00 | 83890, 83898(x4), 83904(x3), 83909 (x3), 83912 83890, 83898(x10), 83904(x5), 83909(x5),83912 83890,83898(x13),83904(x10),83909(x10),83912 |
| Fibroblast Growth Factor Receptor Studies | | |
| Pfeiffer - FGFR1 & FGFR2 | \$500.00 | 83890, 83898 (x2), 83904 (x4), 83912 |
| FGFR2 - Apert, Crouzon, Jackson-Weiss, Beare-Stevenson with cutis gyrate | \$500.00 | 83890, 83898 (x2), 83904 (x4), 83912 |
| FGFR3 - Thanatophoric dyplasia type I | \$500.00 | 83890, 83898 (x2), 83904 (x4), 83912 |
| ****FGFR3 - Achondroplasia, Hypochondroplasia, Non-syndromic cransynostosis, Thanatophoric dysplasia type II | \$300.00 | 83890, 83892, 83898, 83909, 83912 |
| FISH on Hematologic/Oncology studies* | | |
| ALL Screen (interphase) t(9;22), t(8;14), t(12;21), MLL rearrangements, trisomy 8, 9p21, 11q23 | \$1640.00 | 88275 (x2), 88271 (x9), 88291 |
| AML Screen (interphase) t(8;21), t(15;17), MLL rearrangements, inv 16, t(9;22), trisomy 8, 11q23, monosomy 7, del5q/monosomy 5, delp53, t(12;21) | \$1766.00 | 88275 (x2), 88271 (x10), 82291 |
| Multiple myeloma screen (interphase) del 13q (RB1 and D13S319), trisomy 9, IgH rearrangements, p53, t(4;14), t(14;16), del6q23 | \$1010.00 | 88275 (x2), 88271 (x4), 88291 |
| Myelodysplastic States Screen (interphase) -5/5q-, -7/7q-, trisomy 8, X and Y, t(9;22), 11q23, del20q12 | \$1262.00 | 88275 (x2), 88271 (x6), 88291 |
| Non-Hodgkins Lymphoma Screen t(14;18), t(8;14), del p53, trisomy 8, trisomy12 | \$1262.00 | 88275 (x2), 88271 (x6), 88291 |
| Pediatric ALL Screen (interphase) t(9;22),trisomy 4, 10, 17, t(12;21) | \$1388.00 | 88275 (x2), 88271 (x7), 88291 |
| Chromic Lymphocytic Leukemia Screen del p53, del 13q (RB1 and D13S319), trisomy 12 | \$1034.00 | 88275, 88271 (x6), 88291 |
| Chronic Myelocytic Leukemia t(9;22) [BCR/ABL/9q34], Trisomy 8 [Classical 8] | \$782.00 | 88275, 88271 (x4), 88291 |

| | | |
|--|-----------|--|
| Burkett's Lymphoma (MYC[MYC DCBA]) | \$404.00 | 88275, 88271, 88291 |
| CMML (12p13 [ETV6]) | \$404.00 | 88275, 88271, 88291 |
| <i>FOXG1</i> Congenital Rett Variant (unknown mutation) | \$1000.00 | 83890,83898(x5),83904(x4),83909(x4),83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Fragile X syndrome (<i>FMRI</i>) | \$ 350.00 | 83890, 83892, 83896, 83898, 83909, 83912 |
| FRAXE (<i>FMR2</i>) (males only) | \$ 250.00 | 83890, 83898, 83909, 83912 |
| Galactose-1-Phosphate | \$200.00 | 84378 |
| Galactosemia (<i>GALT</i>) (unknown mutation) | \$800.00 | 83890,83898(x4),83904(x3),83909(x3),83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Glutaric Acidemia, Type I (<i>GCDH</i>) (unknown mutation) | \$1000.00 | 83890, 83898(x4),83904(x5),83909(x5),83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Hay-Wells syndrome (<i>P63</i>) (unknown mutation) | \$1200.00 | 83890, 83898 (x6), 83904 (x5), 83909 (x5), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| HCG-Gonadotropin (hCG) | \$36.00 | 84702 |
| Hemochromatosis (<i>HFE</i>) | \$ 250.00 | 83890, 83894, 83898, 83912 |
| Homocysteine - total - plasma | \$120.00 | 83090 |
| Hunter syndrome (<i>IDS</i>) (unknown mutation) | \$1300.00 | 83890, 83898 (x6), 83904 (x6), 83909 (x6), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Hunter syndrome enzyme analysis | \$300.00 | 82657 (x2) |
| Hydrops Panel | \$450.00 | 82657 (x3) |
| I-Cell disease (<i>GNPTA/B</i>) (unknown mutation) | \$2000.00 | 83890, 83898 (x11), 83904 (x8), 83909 (x8), 83912 |
| (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Igh FISH Hematologic/Oncology Study* | \$530.00 | 88275, 88271 (x2), 88291 |
| IgH/ccnd1 – t(11;14) (Interphase) * | \$530.00 | 88275, 88271 (x2), 88291 |
| Igh/BCL2 – t(14;18) (Interphase) * | \$530.00 | 88275, 88271 (x2), 88291 |
| Inhibin | \$36.00 | 86336 |
| Kallman syndrome (Xp22.3) FISH peripheral blood* | \$536.00 | 88274, 88271, 88273, 88291 |
| Krabbe disease enzyme analysis | \$150.00 | 82657 |
| Lactate Analysis | \$60.00 | 83605 |
| Leopard syndrome | | |
| Tier 1: <i>PTPN11</i> full sequence | \$1000.00 | 83890, 83898(x5), 83904(x4), 83909(x4), 83912 |
| Tier 2: <i>RAF1</i> sequencing (exons 7, 14, 17) | \$700.00 | 83890, 83898(x3), 83904(x5), 83909, 83912 |
| Full panel | \$1700.00 | 83890, 83898(x11), 83904(x5), 83909(x5),83912 |
| Known mutation | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Lujan-Fryns syndrome (<i>MEDI2</i>) | | |
| Tier 1: Exons 4, 5, 21, 22, 28, 36 | \$800.00 | 83890, 83898 (x4), 83904 (x3), 83909 (x3), 83912 |
| Tier 2: RNA Full sequence | \$1600.00 | 83890, 83898 (x10), 83904 (x5), 83909 (x5), 83912 |
| Tier 1 and Tier 2 | \$2400.00 | 83890,83898 (x13), 83904 (x10), 83909 (x10), 83912 |
| Lysosomal enzyme - panel | \$450.00 | 82657 (x3) |

| | | | |
|---|--------------------|-----------|---|
| Sotos syndrome (<i>NSDI</i>) | (unknown mutation) | \$2400.00 | 83890, 83898 (x13), 83904 (x10), 83909 (x10), 83912 |
| | (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Duplication analysis - MLPA | | \$500.00 | 83890, 83892, 83900, 83901 (x10), 83909, 83912 |
| Split hand/split foot (<i>P63</i>) | (unknown mutation) | \$1200.00 | 83890, 83898 (x6), 83904 (x5), 83909 (x5), 83912 |
| | (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Steroid Sulfatase | | \$ 536.00 | 88274, 88271, 88273, 88291 |
| Sugars Analysis - TLC - Urine | | \$120.00 | 82489 |
| Tay – Sachs (b-hexosaminidase) no carrier testing | | \$120.00 | 83080 |
| Thrombophilia panel: Factor V Leiden, Prothrombin 20210A, MTHFR C677T and A1298C | | \$300.00 | 83890, 83894 (x2), 83898, 83912 |
| Transferrin isoelectric focusing (CDG screen) | | \$120.00 | 82373 |
| Tryptophan | | \$50.00 | 82131, 83788 |
| UBE3A for Angelman syndrome (unknown mutation) | | \$1800.00 | 83890, 83898(x12), 83904(x5), 83909(x5), 83912 |
| | (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| Uniparental disomy: Chromosome 7 or Chromosome 14 or Chromosome 15 | | \$500.00 | 83890, 83898 (x3), 83909 (x2), 83912 |
| Uric Acid Plasma | | \$48.00 | 84550 |
| Uric Acid – 24 hour urine | | \$48.00 | 84560 |
| VLCAD Deficiency (<i>ACADVL</i>) | | | |
| | (unknown mutation) | \$1300.00 | 83890, 83898(x6), 83904(x6), 83909(x6), 83912 |
| | (known mutation) | \$350.00 | 83890, 83898, 83904(x2), 83909, 83912 |
| Williams syndrome/elastic gene (7q11.23) FISH peripheral blood* | | \$536.00 | 88274, 88271, 88273, 88291 |
| Wolf-Hirschhorn syndrome (4p-) FISH peripheral blood* | | \$356.00 | 88274, 88271, 88291 |
| X Chromosome High-Density Array* | | \$1650.00 | 83890, 88386 (x4), 88291 |
| X-inactivation | | \$350.00 | 83890, 83898 (x2), 83909, 83912 |
| X-Linked Hydrocephalus/MASA (<i>LICAM</i>) | (unknown mutation) | \$2000.00 | 83890, 83898 (x11), 83904 (x8), 83909 (x8), 83912 |
| | (known mutation) | \$350.00 | 83890, 83898, 83904 (x2), 83909, 83912 |
| X-Linked MR Panel (non-syndromic) | | \$4500.00 | 83890, 83898(x22), 83904(x22), 83909(x22), 83912 |

* For Hematologic samples if no chromosomes are requested \$240 culture fee 88230

* For Oncology samples if no chromosomes are requested \$300 culture fee 88237

****This group is not a panel. Each condition is ordered and billed separately.

Updated 01-11-10