



Medical Diagnostic Laboratories

Test Menu: BRCA & Pharmacogenomic Testing



Test No.	Test Name
BRCA: SALIVA	
2600	Breast Cancer High Risk Extended Panel Plus: 15 genes (BRCA1, BRCA2, CDH1, PTEN, TP53, STK11, ATM, CHEK2, PALB2, BARD1, BRIP1, RAD51C, RAD51D, NF1, NBN) by Gene Sequencing with BRCA1/2 Deletion/Duplication Analysis
1279	Lynch Syndrome Gene Panel: 5 Genes (EPCAM*, MLH1, MSH2, MSH6, PMS2) by Gene Sequencing with Deletion/Duplication Analysis (*Deletion/Duplication Analysis of Exon8-9 only)
2601	BRCA1/2: Comprehensive BRCA Analysis by Gene Sequencing with Deletion/Duplication Analysis
1222	BRCA1/2: Ashkenazi Jewish 3-site Mutation Analysis
1236	BRCA1/2: Ashkenazi Jewish 3-site Mutation Analysis (Reflex to Breast Cancer High Risk Extended Panel Plus) (* If the Ashkenazi Jewish 3-site Mutation Analysis is negative, reflex to 2600.)
1224	Gene Specific Site Analysis: Specify Gene: _____ Variant (mutation): _____

Test No.	Test Name
PHARMACOGENOMICS - SALIVA	
CARDIOLOGY	
3101	Antiplatelet Agents - Aspirin, Cilostazol, Clopidogrel, Prasugrel, Ticagrelor (ABCB1, CYP1A2, CYP2B6, CYP2C9, CYP2C19, CYP2D6, CYP3A4, CYP3A5, ITGB3, SLC1B1)
3102	Statins -Atorvastatin, Fluvastatin, Lovastatin, Pitavastatin, Pravastatin, Rosuvastatin, Simvastatin (ABCB1, ABCG2, APOE, CYP2C9, CYP2D6, CYP3A4, CYP3A5, KIF6, MTHFR, SLC1B1)
3103	Anticlotting Agents - Acenocoumarol, Fluindione, Phenprocoumon, Warfarin (CYP2C9, CYP2C19, CYP2D6, VKORC1)
3104	Thrombophilia - Susceptibility to Factor II, Factor V Leiden (F2, F5, MTHFR)
3105	Calcium Channel Blockers - Amlodipine, Nifedipine (CYP3A4, CYP3A5)
3106	Beta Blockers - Bufuralol, Carvedilol, Metoprolol, Propranolol, Talinolol, Timolol (ABCB1, CYP2D6, UGT1A1)
3107	Congestive Heart Failure - Digoxin (ABCB1)
3108	Antiarrhythmics - Flecainide, Propafenone (CYP2D6)
3109	Antihypertensives - Benazepril, Debrisoquine, Enalapril, Irbesartan, Losartan, Olmesartan, Verapamil (ABCB1, CYP2D6, CYP2C9, MTHFR, SLC1B1)
PAIN MANAGEMENT	
3201	Pain Management-General-Alfentanil, Buprenorphine, Codeine, Fentanyl, Hydrocodone, Ketamine, Lornoxicam, Methadone, Morphine, Opioids, Oxycodone, Sumatriptan, Tramadol (ABCB1, COMT, CYP2B6, CYP2C9, CYP2D6, CYP3A4, DBH, OPRD1, OPRM1)
3202	Sedatives & Relaxants, including muscle relaxants-Carisoprodol, Dextromethorphan, Midazolam, Propofol, Rocuronium, Tolperisone (CYP2B6, CYP2C19, CYP2C9, CYP2D6, CYP3A4, CYP3A5, SLC1B1)



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Test No.	Test Name
MALIGNANT DISEASE	
3301	Alkaloids-Vincristine (ABCB1)
3302	Alkylating Agents-Cyclophosphamide (CYP2B6, CYP2C19, CYP3A4, MTHFR, SLCO1B1, TPMT)
3303	Antimetabolites-Cytarabine, Fludarabine, Mercaptopurine, Methotrexate, Silibinin (ABCB1, ABCG2, MTHFR, SLCO1B1, TPMT)
3304	Anthracyclines-Anthracyclines (gen), Doxorubicin, Epirubicin, Idarubicin (ABCB1, CYP2B6, CYP2C19, SLCO1B1)
3305	inase Inhibitors-Gefitinib, Icotinib, Imatinib, Sorafenib, Sunitinib (ABCB1, ABCG2, CYP2B6, CYP2C19, CYP2D6, CYP3A4, CYP3A5, SLCO1B1)
3306	Platinum Derivatives-Carboplatin, Cisplatin, Oxaliplatin, Platinum Compounds (gen) (ABCB1, ABCG2, CYP3A5, MTHFR, TPMT)
3307	Steroid Hormone Inhibitors-Exemestane, Mitotane, Tamoxifen (ABCB1, CYP2B6, CYP2C19, CYP2D6, CYP3A4)
3308	Taxanes-Docetaxel, Paclitaxel, Taxanes (gen) (ABCB1, CYP2C8, CYP3A4, CYP3A5, SLCO1B1)
3309	Topoisomerase Inhibitors-Etoposide, Irinotecan (ABCB1, SLOC1B1, UGT1A1)
3310	Uracil Derivatives-Capecitabine, Fluorouracil, Folfox, Folox, Leucovorin, Tegafur, Xelox (ABCB1, ABCG2, DPYD, MTHFR, SLCO1B1)
3311	Antiemetics-Dolasetron, Granisetron, Ondansetron (ABCB1, CYP2D6, CYP3A5)
PSYCHOTROPIC DISORDERS (INCLUDING ADDICTION)	
3401	Addiction to Alcohol, Cocaine, Heroin, Opioids, Tobacco - Anti-addiction (Nicotine), Anti-addiction (Opioids), Buprenorphine, Bupropion, Ethanol, Disulfiram, Heroin, Levodopa, Methadone, Naloxone, Naltrexone, Nicotine, Suboxone (ABCB1, ANKK1, COMT, CYP2B6, CYP2C19, CYP2D6, CYP3A4, DBH, MTHFR, OPRM1)
3402	ADD/ADHD - Atomoxetine, Bupropion, Dextroamphetamine, Imipramine, Methylphenidate, Modafinil, Nortriptyline, (ANKK1, ABCB1, ADRA2A, CYP2B6, CYP2C19, CYP2D6, DRD1)
3403	Alzheimer's Disease - Donepezil, Galantamine, Olanzapine, Risperidone (ABCB1, ANKK1, CYP1A2, CYP2C9, CYP2D6, CYP3A5, HTR2A, MTHFR)
3404	Anxiety, Insomnia, Severe Agitation - Bupropion, Desvenlafaxine, Dexmedetomidine, Duloxetine, Escitalopram, Lorazepam, Midazolam, Oxazepam, Venlafaxine, Vilazodone (ABCB1, ADRA2A, ANKK1, COMT, CYP1A2, CYP2B6, CYP2C19, CYP2D6, CYP3A4, CYP3A5, GABRP, HTR2A, UGT1A1, UGT2B15)
3405	Autism Spectrum Disorders - Aripiprazole, Quetiapine, Risperidone (ABCB1, ANKK1, COMT, CYP2D6, CYP3A4, CYP3A5, HTR2A)
3406	Bipolar Disorder - Aripiprazole, Lamotrigine, Lithium, Olanzapine, Oxcarbazepine, Quetiapine, Valproic acid, Vilazodone (ABCB1, ABCG2, ANKK1, CYP1A2, CYP2C9, CYP2D6, CYP3A4, CYP3A5, COMT, DRD1, GABRA6, HTR2A, MTHFR, UGT1A1, UGT2B7)
3407	Depressive Disorder & Major Depressive Disorder - Amitriptyline, Antidepressants (gen), Antipsychotics (gen), Aripiprazole, Bupropion, Citalopram, Clomipramine, Desipramine, Desvenlafaxine, Diazepam, Doxepin, Duloxetine, Escitalopram, Fluoxetine, Fluvoxamine, Imipramine, Maprotiline, Milnacipran, Mirtazapine, Nortriptyline, Olanzapine, Opipramol, Paroxetine, Quetiapine, Sertraline, SSRIs (gen), Trimipramine, Venlafaxine, Vilazodone, Vortioxetine (ABCB1, ADRA2A, ANKK1, COMT, CYP1A2, CYP2B6, CYP2C19, CYP2C9, CYP2D6, CYP3A4, CYP3A5, DRD4, GABRP, GRIK4, HTR2A, HTR2C, MTHFR, UGT1A1)
3408	Epilepsy - Antiepileptics (gen), Brivaracetam, Carbamazepine, Clobazam, Lamotrigine, Mephenytoin, Oxcarbazepine, Phenobarbital, Phenytoin, Valproic acid (ABCB1, ABCG2, ANKK1, CYP1A2, CYP2C19, CYP2C9, CYP3A4, CYP3A5, GABRA6, UGT2B7)
3409	Parkinson's Disease - Entacapone (COMT)
3410	Schizophrenia - Antipsychotics (gen), Aripiprazole, Chlorpromazine, Clozapine, Fluphenazine, Haloperidol, Iloperidone, Nemonapride, Olanzapine, Quetiapine, Risperidone, Thioridazine, Trifluoperazine, Zuclopenthixol (ABCB1, ANKK1, COMT, CYP1A2, CYP2C9, CYP2D6, CYP3A4, CYP3A5, DRD1, HTR2A, HTR2C, MTHFR)



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3411	Fibromyalgia - Amitriptyline, Atomoxetine, Bupropion, Carbamazepine, Carisoprodol, Codeine, Desipramine, Desvenlafaxine, Dextromethorphan, Duloxetine, Escitalopram, Fluoxetine, Milnacipran, Naltrexone, Nortriptyline, Prednisone, Quetiapine, Tramadol, Venlafaxine (ABCB1 , ADRA2A , ANKK1 , COMT , CYP1A2 , CYP2B6 , CYP2C19 , CYP2D6 , CYP3A4 , CYP3A5 , DBH , GABRP , HTR2A , OPRM1 , UGT1A1 , UGT2B7)
3412	Post-Traumatic Stress Disorder (PTSD) - Aripiprazole, Amitriptyline, Bupropion, Buspirone, Desvenlafaxine, Dronabinol, Duloxetine, Fluoxetine, Fluvoxamine, Guanfacine, Hydroxyzine, Ketamine, Lamotrigine, Mirtazapine, Nefazodone, Paroxetine, Propranolol, Quetiapine, Risperidone, Sertraline, Trazodone, Valproic Acid, Venlafaxine, Vilazodone, Zolpidem (ABCB1 , ABCG2 , ANKK1 , COMT , CYP1A2 , CYP2B6 , CYP2C19 , CYP2C9 , CYP2D6 , CYP3A4 , CYP3A5 , DRD1 , GABRP , HTR2A , UGT1A1 , UGT2B7)
INFECTIOUS DISEASE	
3501	HIV/AIDS - Antivirals (HIV), Atazanavir, Dolutegravir, Efavirenz, Etravirine, Indinavir, Lamivudine, Lopinavir, Nelfinavir, Nevirapine, Ritonavir, Tenofovir, Zidovudine (ABCB1 , ABCG2 , APOE , CYP2B6 , CYP2C19 , CYP2D6 , CYP3A4 , CYP3A5 , UGT1A1)
3502	Antifungals and Antibiotics - Daptomycin, Dicloxacillin, Erythromycin, Rifampicin, Sulfonamides (gen), Voriconazole (ABCB1 , CYP2B6 , CYP2C9 , CYP2C19 , CYP3A4 , SLCO1B1)
3503	Anti-Mycobacterials - Anti-Mycobacterials (TB), Ethambutol, Isoniazid, Pyrazinamide, Rifampicin (ABCB1 , CYP2B6 , SLCO1B1)
IMMUNOLOGY / IMMUNE MODULATION	
3601	Transplantation-Busulfan, Cyclophosphamide, Cyclosporine, Everolimus, Methylprednisone, Prednisone/Prednisolone, Sirolimus, Tacrolimus (ABCB1 , CYP2B6 , CYP2C19 , CYP2C9 , CYP3A4 , CYP3A5 , MTHFR , SLCO1B1 , TMPT)
3602	Rheumatoid Arthritis-Leflunomide, Methotrexate, Sulfasalazine (ABCB1 , ABCG2 , CYP1A2 , MTHFR , SLCO1B1)
3603	Type-II Diabetes-Repaglinide, Sulfonylureas (gen), Urea Derivatives (gen) (CYP2C8 , CYP2C9 , SLCO1B1)
3604	Gastritis and Colitis-Esomeprazole, Lansoprazole, Loperamide, Omeprazole, Pantoprazole, Rabeprazole, Tacrolimus (ABCB1 , CYP2C19 , CYP3A4 , CYP3A5)
3605	Inflammation-Anti-inflammatories (gen), Celecoxib, Dexamethasone, Diclofenac, Flurbiprofen, Lornoxicam, Meloxicam, Prednisone/Prednisolone (ABCB1 , CYP2C9 , COMT , DBH , OPRM1)
3606	Systemic Lupus Erythematosus-Cyclophosphamide (CYP2B6 , CYP2C19 , CYP3A4 , MTHFR , SLCO1B1 , TMPT)
3607	Gout-Allopurinol (ABCG2)
3608	Antihistamines-Fexofenadine (ABCB1)
3609	Antiasthmatics-Zafirlukast (CYP2C9)
OTHER	
3701	Anaesthesiology-Nitrous Oxide (MTHFR)
3702	Beta Thalassemia-Deferasirox (CYP1A2 , UGT1A1)
3703	Narcolepsy-Modafinil (ABCB1)
3704	Contraception-Oral Contraceptives (gen) (CYP2C9 , F2 , F5 , MTHFR)
3705	Erectile Dysfunction-Sildenafil, Vardenafil (CYP3A4 , CYP3A5)
3706	Bladder Control-Tolterodine (CYP2D6)
DERMATOLOGIC	
4048	Azathioprine
3837	Cyclosporine
3910	Methotrexate
3950	Prednisone/Prednisolone
3861	Erythromycin
3840	Daptomycin
3849	Dicloxacillin



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Test No.	Test Name
3957	Rifampicin
3970	Sulfonamides
3993	Voriconazole
UROLOGIC	
3707	Bladder Incontinence - Darifenacin, Fesoterodine, Mirabegron, Tamsulosin, Tolterodine (CYP2D6, CYP3A4, CYP3A5)
3708	Bladder Cancer – Cisplatin, Erdafitinib (ABCB1, CYP2C9, CYP3A4, MTHFR, TPMT)
3709	Prostate Cancer – Abiraterone, Apalutamide, Cabazitaxel, Docetaxel, Enzalutamide, Flutamide, Goserelin, Leuprolide, Nilutamide, Prednisone/Prednisolone (ABCB1, CYP1A2, CYP2C19, CYP2D6, CYP3A4, CYP3A5, CYP2C8, SLCO1B1)
INHERITED CARDIAC CONDITIONS / CARDIOVASCULAR DISEASE	
1267	Long QT Syndrome by Next Generation Sequencing (KCNQ1, KCNH2, SCN5A, KCNE1, KCNE2, KCNJ2, CACNA1C, CAV3, SCN4B, AKAP9, SNTA1, ANK2, CALM1, CALM2, KCNJ5)
1263	Thrombophilia Panel
	1264 Factor II (F2 20210 G>A)
	1265 Factor V Leiden (F5 1601 G>A)
	1266 MTHFR Mutations (MTHFR 677 C>T, MTHFR 1298 A>C)