



Screening Assays

<u>Anti-cancer drug screening assays</u>				
No.	Assay	Application	Amount required	Note
C003	Leukemia cell line HL-60	Leukemia	2 mg; Mixture 15 mg	Collect 10 samples
C006	Lung adenocarcinoma cell line A549	Lung cancer	2 mg; Mixture 15 mg	Collect 10 samples
C030	Liver cancer cell line BEL-7402	Liver cancer	2 mg; Mixture 15 mg	Collect 10 samples
C004	Leukemia cell line K-562	Leukemia	2 mg; Mixture 15 mg	At least 10 Samples
C084	Leukemia cell line Molt-4	Leukemia	2 mg; Mixture 15 mg	At least 10 Samples
C005	Leukemia cell line Raji	Leukemia	2 mg; Mixture 15 mg	At least 10 Samples
C002	Leukemia cell line U-937	Leukemia	2 mg; Mixture 15 mg	At least 10 Samples
C020	Colon cancer cell line HCT-116	Colon cancer	2 mg; Mixture 15 mg	At least 10 Samples
C026	Colon cancer cell line HCT-15	Colon cancer	2 mg; Mixture 15 mg	At least 10 Samples
C023	Colon cancer cell line HT-29	Colon cancer	2 mg; Mixture 15 mg	At least 10 Samples
C022	Colon cancer cell line LoVo	Colon cancer	2 mg; Mixture 15 mg	At least 10 Samples
C021	Colon cancer cell line SW-1116	Colon cancer	2 mg; Mixture 15 mg	At least 10 Samples
C025	Colon cancer cell line WiDr	Colon cancer	2 mg; Mixture 15 mg	At least 10 Samples
C096	Lung adenocarcinoma cell line NCI-H187	Lung cancer	2 mg; Mixture 15 mg	At least 10 Samples
C010	Lung adenocarcinoma cell line NCI-H23	Lung cancer	2 mg; Mixture 15 mg	At least 10 Samples
C027	Liver cancer cell line BEL-7404	Liver cancer	2 mg; Mixture 15 mg	At least 10 Samples
C097	Liver cancer cell line Hep3B	Liver cancer	2 mg; Mixture 15 mg	At least 10 Samples
C028	Liver cancer cell line HepG2	Liver cancer	2 mg; Mixture 15 mg	At least 10 Samples
C029	Liver cancer cell line SMMC-7721	Liver cancer	2 mg; Mixture 15 mg	At least 10 Samples
C041	Cervical cancer cell line HeLa	Cervical cancer	2 mg; Mixture 15 mg	At least 10 Samples
C042	Squamous epithelium cancer cell line A-431	Epithelial cancer	2 mg; Mixture 15 mg	At least 10 Samples
C039	Squamous epithelium cancer cell line KB	Epithelial cancer	2 mg; Mixture 15 mg	At least 10 Samples
C035	Ovarian cancer cell line 3A0	Ovarian cancer	2 mg; Mixture 15 mg	At least 10 Samples
C034	Ovarian cancer cell line A0	Ovarian cancer	2 mg; Mixture 15 mg	At least 10 Samples
C033	Ovarian cancer cell line HO-8910	Ovarian cancer	2 mg; Mixture 15 mg	At least 10 Samples
C088	Ovarian cancer cell line OVCAR-3	Ovarian cancer	2 mg; Mixture 15 mg	At least 10 Samples
C098	Ovarian cancer cell line SK-OV-3	Ovarian cancer	2 mg; Mixture 15 mg	At least 10 Samples
C053	Proliferation of endothelial cells	Angiogenesis	2 mg; Mixture 15 mg	At least 10 Samples
C092	Prostate cancer cell line PC-3	Prostate cancer	2 mg; Mixture 15 mg	At least 10 Samples

No.	Assay	Application	Amount required	Note
C044	Breast cancer cell line MCF-7	Breast cancer	2 mg;Mixture 15 mg	At least 10 Samples
C073	Breast cancer cell line MDA-MB-231	Breast cancer	2 mg;Mixture 15 mg	At least 10 Samples
C089	Breast cancer cell line MDA-MB-435	Breast cancer	2 mg;Mixture 15 mg	At least 10 Samples
C074	Breast cancer cell line MDA-MB-468	Breast cancer	2 mg;Mixture 15 mg	At least 10 Samples
C090	Breast cancer cell line SK-BR-3	Breast cancer	2 mg;Mixture 15 mg	At least 10 Samples
C085	Stomach adenocarcinoma cell line AGS	Stomach cancer	2 mg;Mixture 15 mg	At least 10 Samples
C016	Stomach adenocarcinoma cell line MKN-1	Stomach cancer	2 mg;Mixture 15 mg	At least 10 Samples
C014	Stomach adenocarcinoma cell line MKN-28	Stomach cancer	2 mg;Mixture 15 mg	At least 10 Samples
C017	Stomach adenocarcinoma cell line MKN-45	Stomach cancer	2 mg;Mixture 15 mg	At least 10 Samples
C015	Stomach adenocarcinoma cell line SGC-7901	Stomach cancer	2 mg;Mixture 15 mg	At least 10 Samples
C108	c-Kit	tyrosine kinase	2 mg;Mixture 15 mg	At least 10 Samples, Inquire
C109	c-Src	tyrosine kinase	2 mg;Mixture 15 mg	At least 10 Samples, Inquire
C051	Epidermal growth factor receptor (EGFR) tyrosine kinase	tyrosine kinase	2 mg;Mixture 15 mg	At least 10 Samples, Inquire
C052	Vascular endothelial growth factor receptor 2 (VEGFR2) tyrosine kinase	tyrosine kinase	2 mg;Mixture 15 mg	At least 10 Samples, Inquire
C057	In vitro colony formation	Anti-cancer	2 mg;Mixture 15 mg	Inquire
C055	Tube formation	Angiogenesis	2 mg;Mixture 15 mg	Inquire
C054	Migration of endothelial cells	Angiogenesis	2 mg;Mixture 15 mg	Inquire
C076	Estrogen receptor competitive binding assay	Breast cancer, osteoporosis	5-10 mg	At least 8 Samples, Inquire
C082	Glucocorticoid receptor competitive binding assay	Nuclear receptor cross-reactivity	5-10 mg	At least 8 Samples, Inquire
C077	Androgen receptor competitive binding assay	Prostate cancer, prostate enlargement	5-10 mg	At least 8 Samples, Inquire
C083	Mineralcorticoid receptor competitive binding assay	Nuclear receptor cross-reactivity	5-10 mg	At least 8 Samples, Inquire
C075	Progesterone receptor competitive binding assay	Breast cancer, uterine fibroids	5-10 mg	At least 8 Samples, Inquire
C149	Estrogen receptor agonist cell-based assay	Breast cancer, osteoporosis	5-10 mg	At least 8 Samples, Inquire
C150	Estrogen receptor antagonist cell-based assay	Breast cancer, osteoporosis	5-10 mg	At least 8 Samples, Inquire
C151	Androgen receptor agonist cell-based assay	Prostate cancer, prostate enlargement	5-10 mg	At least 8 Samples, Inquire
C152	Androgen receptor antagonist cell-based assay	Prostate cancer, prostate enlargement	5-10 mg	At least 8 Samples, Inquire
C153	Progesterone receptor agonist cell-based assay	Breast cancer, uterine fibroids	5-10 mg	At least 8 Samples, Inquire
C154	Progesterone receptor antagonist cell-based assay	Breast cancer, uterine fibroids	5-10 mg	At least 8 Samples, Inquire
C117	Urokinase	Tumor	2 mg	At least 3 Samples
C095	Human methionine aminopeptidase type I (HsMetAP1)	Tumor angiogenesis	2 mg	At least 10 Samples
C120	20S proteasome assay	Tumor	2 mg	At least 3 Samples
C103	Jnk Stimulatory Phosphatase-1	Tumor	2 mg	At least 3 Samples
C107	TC-PTP	Cross-reactivity	2 mg	At least 3 Samples
C106	Protein tyrosine phosphatase G1	Cross-reactivity	2 mg	At least 3 Samples

No.	Assay	Application	Amount required	Note
C099	Protein tyrosine phosphatase α	Tumor	2 mg	At least 3 Samples
C100	Protein tyrosine phosphatase ϵ	Tumor, osteoporosis	2 mg	At least 3 Samples
C105	Protein tyrosine phosphatase PEST	Cross-reactivity	2 mg	At least 3 Samples
C118	PTEN	Tumor	2 mg	At least 3 Samples
C113	SHP2	Tumor	2 mg	At least 3 Samples
C066	Human MT1-MMP	Cancer metastasis	2 mg	At least 10 Samples
C067	Human MT2-MMP	Cancer metastasis	2 mg	At least 10 Samples
C069	Human MT3-MMP	Cancer metastasis	2 mg	At least 10 Samples
C070	Human Gelatinase A	Cancer metastasis	2 mg	At least 10 Samples
C071	Human Gelatinase B	Cancer metastasis	2 mg	At least 10 Samples
C063	Human stromelysin 1	Cancer metastasis	2 mg	At least 10 Samples
C068	Human matrilysin	Cancer metastasis	2 mg	At least 10 Samples
C064	Human collagenase 1	Cancer metastasis	2 mg	At least 10 Samples
C065	Human collagenase 3	Cancer metastasis	2 mg	At least 10 Samples
C072	Human Macrophage elastase (HME)	Cancer metastasis	2 mg	At least 10 Samples
C119	VHR (DUSP3)	Tumor	2 mg	At least 3 Samples
C148	GLEPP1	Nephritis	2 mg	At least 3 Samples
C101	SAP-1	Tumor	2 mg	At least 3 Samples
C061	Cdc25 A	Anti-cancer	2 mg	At least 3 Samples
C062	Cdc25 B	Anti-cancer	2 mg	At least 3 Samples
C104	PRL-3	Tumor	2 mg	At least 3 Samples
C102	HD-PTP	Tumor	2 mg	At least 3 Samples
C130	Aurora A	cancer	2 mg	At least 3 Samples
C135	JAK2	cancer	2 mg	At least 3 Samples
C136	JAK2 (JH1 JH2 domain V617F)	cancer	2 mg	At least 3 Samples
C146	NFkB pathway inhibitor/activator	Tumor	2 mg	At least 3 Samples
C128	AKT1 (PKB alpha)	cancer	2 mg	At least 3 Samples
C139	LYN A	cancer	2 mg	At least 3 Samples
C140	LYN B	cancer	2 mg	At least 3 Samples
C145	RPS6KB1 (p70S6K)	cancer	2 mg	At least 3 Samples
C147	Mitochondrion membrane potential	Tumor	2 mg	At least 3 Samples
C132	CHEK2 (CHK2)	cancer	2 mg	At least 3 Samples
C133	FRAP1 (mTOR)	cancer	2 mg	At least 3 Samples
C134	FYN	cancer	2 mg	At least 3 Samples
C137	JAK2 (JH1 JH2 domain)	cancer	2 mg	At least 3 Samples
C129	AKT2 (PKB beta)	cancer	2 mg	At least 3 Samples
C138	LCK	cancer	2 mg	At least 3 Samples
C141	MAPK1 (Erk2)	cancer	2 mg	At least 3 Samples
C142	MAPK3 (Erk1)	cancer	2 mg	At least 3 Samples
C131	BRAF*	cancer	2 mg	At least 3 Samples
C144	RAF1 (cRAF)*	cancer	2 mg	At least 3 Samples
C127	Sirtuins (SIRT1)	Cancer	2 mg	At least 3 Samples
C121	Histone deacetylase 1 (HDAC1)	Cancer	2 mg	At least 3 Samples
C124	Histone deacetylase 6 (HDAC6)	Cancer	2 mg	At least 3 Samples
C125	Histone deacetylase 8 (HDAC8)	Cancer	2 mg	At least 3 Samples
C157	Histone deacetylase 3 (HDAC3)	Cancer	2 mg	At least 3 Samples
C159	Histone deacetylase 10 (HDAC10)	Cancer	2 mg	At least 3 Samples
C158	Histone deacetylase 11 (HDAC11)	Cancer	2 mg	At least 3 Samples
C122	Histone deacetylase 2 (HDAC2)	Cancer	2 mg	At least 3 Samples
C123	Histone deacetylase 5 (HDAC5)	Cancer	2 mg	At least 3 Samples
C126	Histone deacetylase 9 (HDAC9)	Cancer	2 mg	At least 3 Samples
C143	MARK2	cancer	2 mg	At least 3 Samples

Cardiovascular disease-related drug screening assays

H005	Angiotensin converting enzyme (ACE) activity	Hypertension	10 mg, Pure compound	Collect 50 samples, Inquire
H002	Contractile responses in isolated ventricular papillary muscle/atrium	Heart failure	30 mg, Pure compound	At least 10 Samples, Inquire
H004	Contractile responses in isolated vascular smooth muscles	Hypertension	30 mg, Pure compound	At least 10 Samples, Inquire
H001	Arrhythmia model in isolated guinea-pig atrium	Arrhythmia	30 mg, Pure compound	At least 10 Samples, Inquire
H006	Thrombin	Thrombosis	2 mg	At least 3 Samples

No.	Assay	Application	Amount required	Note
H007	α 1A Adrenergic Receptor Calcium Assay - Agonist	Hypertension, Heart Failure, Prostatic Hyperplasia	2 mg	Collect 10 samples
H008	α 1A Adrenergic Receptor Calcium Assay - Antagonist	Hypertension, Heart Failure, Prostatic Hyperplasia	2 mg	Collect 10 samples
H009	α 1B Adrenergic Receptor Calcium Assay - Agonist	Hypertension, Heart Failure, Prostatic Hyperplasia	2 mg	Collect 10 samples
H010	α 1B Adrenergic Receptor Calcium Assay - Antagonist	Hypertension, Heart Failure, Prostatic Hyperplasia	2 mg	Collect 10 samples
H011	α 1D Adrenergic Receptor Calcium Assay - Agonist	Hypertension, Heart Failure, Prostatic Hyperplasia	2 mg	Collect 10 samples
H012	α 1D Adrenergic Receptor Calcium Assay - Antagonist	Hypertension, Heart Failure, Prostatic Hyperplasia	2 mg	Collect 10 samples
H013	β 1 Adrenergic Receptor Calcium Assay - Agonist	Hypertension, Heart Failure	2 mg	Collect 10 samples
H014	β 1 Adrenergic Receptor Calcium Assay - Antagonist	Hypertension, Heart Failure	2 mg	Collect 10 samples
H015	Voltage-gated potassium channel hERG (manual patch clamp)	Cardiac safty assess	2 mg	At least 5 Samples
H016	Voltage-gated potassium channel hERG (FDSS)	Cardiac safty assess	2 mg	At least 25 Samples
H017	Voltage-gated potassium channel KCNQ1 (manual patch clamp)	Cardiovascular system disease	2 mg	At least 5 Samples
H018	Voltage-gated potassium channel Kir2.1(manual patch clamp)	Cardiovascular, muscle disease	2 mg	At least 5 Samples
<u>Immunomodulating drug screening assays</u>				
I026	Type II collagen induced mouse Arthritis model	Arthritis		Inquire
I013	Detection of nitric oxide (NO)	As above	2 mg	At least 10 Samples, Inquire
I014	NK cells activity	As above	2 mg	At least 10 Samples, Inquire
I001	T/B lymphocyte proliferation	Immunomodulation	2 mg	Collect 10 samples, Inquire
I005	Interferon- γ production	As above	2 mg	At least 10 Samples, Inquire
I007	Interleukin-1 production	As above	2 mg	At least 10 Samples, Inquire
I004	Interleukin-10 production	As above	2 mg	At least 10 Samples, Inquire
I002	Interleukin-12 p40 production	As above	2 mg	At least 10 Samples, Inquire
I008	Interleukin-2 production	As above	2 mg	At least 10 Samples, Inquire
I009	Interleukin-4 production	As above	2 mg	At least 10 Samples, Inquire
I010	Interleukin-5 production	As above	2 mg	At least 10 Samples, Inquire
I011	Interleukin-6 production	As above	2 mg	At least 10 Samples, Inquire
I006	Tumor necrosis factor- α production	As above	2 mg	At least 10 Samples, Inquire
I003	Interleukin-12 p70 production	As above	2 mg	At least 10 Samples, Inquire
I027	Mixed lymphocyte reaction(MLR)	Immunomodulation	2 mg	At least 10 Samples, Inquire
I029	Formyl peptide receptor agonist assay (cell-based)	Inflammation	5-10 mg	Collect 10 samples, Inquire
I022	Formyl peptide receptor like-1 agonist assay (cell-based)	Inflammation	5-10 mg	Collect 8 samples, Inquire
I036	CD45	Immunomodulation	2 mg	At least 3 Samples
I035	Caspase-1	Inflammation	2 mg	At least 3 Samples
I044	ZAP70	inflammation	2 mg	At least 3 Samples
I034	Syk	Inflammation	2 mg	At least 3 Samples
I042	Chemokine Receptor CCR2 Calcium Assay - Agonist	AIDS, Inflammatory Diseases, Autoimmune Diseases	2 mg	Collect 10 samples
I043	Chemokine Receptor CCR2 Calcium Assay - Antagonist	AIDS, Inflammatory Diseases, Autoimmune Diseases	2 mg	Collect 10 samples
I031	Chemokine Receptor CCR5 GTP γ S Binding Assay - Agonist	AIDS, Multiple Sclerosis, other immune diseases	2 mg	Collect 10 samples

No.	Assay	Application	Amount required	Note
I030	Chemokine Receptor CCR5 GTPγS Binding Assay - Antagonist	AIDS, Multiple Sclerosis, other immune diseases	2 mg	Collect 10 samples
I039	Chemokine Receptor CCR5 Calcium Assay - Agonist	AIDS, Cancer, Inflammatory Diseases, Autoimmune Diseases	2 mg	Collect 10 samples
I040	Chemokine Receptor CCR5 Calcium Assay - Antagonist	AIDS, Cancer, Inflammatory Diseases, Autoimmune Diseases	2 mg	Collect 10 samples
I033	Chemokine Receptor CCR4 GTPγS Binding Assay - Agonist	AIDS, tumor metastasis, other immune diseases	2 mg	Collect 10 samples
I032	Chemokine Receptor CCR4 GTPγS Binding Assay - Antagonist	AIDS, tumor metastasis, other immune diseases	2 mg	Collect 10 samples
I037	Chemokine Receptor CXCR4 Calcium Assay - Agonist	AIDS, Cancer, Inflammatory Diseases, Autoimmune Diseases	2 mg	Collect 10 samples
I038	Chemokine Receptor CXCR4 Calcium Assay - Antagonist	AIDS, Cancer, Inflammatory Diseases, Autoimmune Diseases	2 mg	Collect 10 samples
I041	NFκB activation and translocation assay	Signal transduction	2 mg	Collect 10 samples, Inquire
I028	STAT-1 activation and translocation assay	Signal transduction	5-10 mg	Inquire
I045	ERK activation and translocation assay	Signal transduction	2 mg	Collect 10 samples, Inquire
<u>Neural system drug screening assays</u>				
N070	In vitro BuchE assay	Hypermesnia	5 mg	Collect 10 samples
N016	In vitro AchE assay	Hypermesnia	5 mg	Collect 10 samples
N050	6-OHDA induced PC12 cell injury	Neural protection	5 mg	Collect 10 samples
N052	Glutamate-induced PC12 cell injury	Neural protection	5 mg	Collect 10 samples
N019	H2O2-induced PC12 cell injury	Neural protection	5 mg	Collect 10 samples
N071	Corticosterone-induced PC12 cell injury	Depression	5 mg	Collect 10 samples
N020	OGD-induced PC12 cell injury	Cerebral ischemia	5 mg	Collect 10 samples
N074	NMDA induced PC12 cell injury	Depression	5 mg	Collect 10 samples
N018	β-amyloid-induced PC12 cell injury	Neural protection	5 mg	Collect 10 samples
N084	H2O2-induced SH-SY5Y cell injury	Neural protection	5 mg	Collect 10 samples
N087	β-amyloid-induced SH-SY5Y cell injury	Neural protection	5 mg	Collect 10 samples
N088	OGD-induced SH-SY5Y cell injury	Neural protection	5 mg	Collect 10 samples
N089	6-OHDA induced SH-SY5Y cell injury	Neural protection	5 mg	Collect 10 samples
N090	Corticosterone-induced SH-SY5Y cell injury	Neural protection	5 mg	Collect 10 samples
N091	Rotenone-induced PC12 cell injury	Neural protection	5 mg	Collect 10 samples
N092	Rotenone-induced SH-SY5Y cell injury	Neural protection	5 mg	Collect 10 samples
N093	Okadaic acid-induced PC12 cell injury	Neural protection	5 mg	Collect 10 samples
N094	Okadaic acid-induced SH-SY5Y cell injury	Neural protection	5 mg	Collect 10 samples
N095	Sodium azide-induced PC12 cell injury	Neural protection	5 mg	Collect 10 samples
N096	Sodium azide-induced SH-SY5Y cell injury	Neural protection	5 mg	Collect 10 samples
N008	Electroshock-induced seizures in mice	Epilepsy	20-30 mg	
N073	Open field test	Stress	20-30 mg	
N009	Climbing up test	Muscle relaxation	20-30 mg	
N007	Acetic acid-induced writhing	Analgesia	20-30 mg	

No.	Assay	Application	Amount required	Note
N006	Spontaneous activities	Sedative	20–30 mg	
N011	NaNO ₂ -induced hypoxic	Cerebral ischemia	20–30 mg	
N012	Xylene-induced swelling	Inflammation	50 mg	
N077	The tail suspension test	Depression	20–30 mg	
N053	The forced swim test	Depression	20–30 mg	
N013	Mouse water maze test	Noesis amelioration	200 mg	Inquire
N021	Neurotransmitter detection	CNS diseases	1 g	Inquire
N075	Enzyme kinetics	Enzyme inhibition	20 mg	Inquire
N076	Cerebral injury caused by MCAO	Cerebral ischemia	0.5–1 g	Inquire
N072	β –secretase assay	β –secretase inhibition	5 mg	At least 4 Samples
N014	Rat water maze test	Noesis amelioration	0.5–1 g	Inquire
N061	Caspase-2	Cross-reactivity	2 mg	At least 3 Samples
N047	Caspase-3	Alzheimer's Disease, cerebral ischemia	2 mg	At least 3 Samples
N062	Caspase-6	Cross-reactivity	2 mg	At least 3 Samples
N049	Caspase-7	Cross-reactivity	2 mg	At least 3 Samples
N063	Caspase-8	Cross-reactivity	2 mg	At least 3 Samples
N064	Caspase-9	Cross-reactivity	2 mg	At least 3 Samples
N059	Protein tyrosine phosphatase σ	Cross-reactivity	2 mg	At least 3 Samples
N060	GSK3 β	Diabetes, AD	2 mg	At least 3 Samples
N085	CDK5/p25	Neurodegenerative diseases	2 mg	At least 3 Samples
N086	Autophagy	Neurodegenerative diseases	2 mg	At least 3 Samples
N046	β –Secretase 1	Alzheimer's Disease	2 mg	At least 3 Samples
N068	Delta-Opioid Receptor (DOR) Calcium Assay - Agonist	Pain, Drug Tolerance and Dependence, Inflammatory Diseases	2 mg	Collect 10 samples
N069	Delta-Opioid Receptor (DOR) Calcium Assay - Antagonist	Pain, Drug Tolerance and Dependence, Inflammatory Diseases	2 mg	Collect 10 samples
N082	Kappa-Opioid Receptor (KOR) Calcium Assay - Agonist	Pain, Drug Tolerance and Dependence	2 mg	Collect 10 samples
N083	Kappa-Opioid Receptor (KOR) Calcium Assay - Antagonist	Pain, Drug Tolerance and Dependence	2 mg	Collect 10 samples
N080	Mu-Opioid Receptor (MOR) Calcium Assay - Agonist	Pain, Drug Tolerance and Dependence	2 mg	Collect 10 samples
N081	Mu-Opioid Receptor (MOR) Calcium Assay - Antagonist	Pain, Drug Tolerance and Dependence	2 mg	Collect 10 samples
N078	Serotonin Receptor 5HT ₄ R cAMP Assay - Agonist	Cognitive deficits, Abdominal pain and Feeding disorders	2 mg	Collect 10 samples
N079	Serotonin Receptor 5HT ₄ R cAMP Assay - Antagonist	Cognitive deficits, Abdominal pain and Feeding disorders	2 mg	Collect 10 samples
N097	Cannabinoid Receptor CB ₂ Calcium Assay - Agonist	Pain, Drug Addiction, Autoimmune Diseases	2 mg	Collect 10 samples
N098	Cannabinoid Receptor CB ₂ Calcium Assay - Antagonist	Pain, Drug Addiction, Autoimmune Diseases	2 mg	Collect 10 samples
N099	Dopamine Receptor 1 (DRD1) Calcium Assay - Agonist	Depression, Schizophrenia, Parkinson's Disease	2 mg	Collect 10 samples
N100	Dopamine Receptor 1 (DRD1) Calcium Assay - Antagonist	Depression, Schizophrenia, Parkinson's Disease	2 mg	Collect 10 samples
N101	Dopamine Receptor 2 (DRD2) Calcium Assay - Agonist	Depression, Schizophrenia, Parkinson's Disease	2 mg	Collect 10 samples
N102	Dopamine Receptor 2 (DRD2) Calcium Assay - Antagonist	Depression, Schizophrenia, Parkinson's Disease	2 mg	Collect 10 samples
N103	Dopamine Receptor 5 (DRD5) Calcium Assay - Agonist	Depression, Schizophrenia, Parkinson's Disease	2 mg	Collect 10 samples
N104	Dopamine Receptor 5 (DRD5) Calcium Assay - Antagonist	Depression, Schizophrenia, Parkinson's Disease	2 mg	Collect 10 samples
N023	MAO activity assay	Parkinson's Disease, depression	>5 mg	Collect 10 samples, Inquire
N025	NO production inhibition test	Neural protection	>5 mg	Collect 10 samples, Inquire

No.	Assay	Application	Amount required	Note
N029	Mouse hot-plate test	Pain	20 mg	Collect 10 samples, Inquire
N067	The mouse tail pressure test	Pain	20 mg	Collect 10 samples, Inquire
N066	Anti inflammatory experiment (Carrageenan induced paw of mouse edema model)	Inflammation	20 mg	Collect 10 samples, Inquire
N110	Voltage-gated potassium channel KCNQ2 (manual patch clamp)	CNS disease	2 mg	At least 5 Samples
N111	Voltage-gated potassium channel KCNQ3 (manual patch clamp)	CNS disease	2 mg	At least 5 Samples
N112	Voltage-gated potassium channel KCNQ4 (manual patch clamp)	Deaf	2 mg	At least 5 Samples
N113	Voltage-gated potassium channel KCNQ2 (FDSS)	Epilepsy, pain	2 mg	At least 25 Samples
N114	Nonselective cation channel TRPA1 (manual patch clamp)	Pain	2 mg	At least 5 Samples
N115	Nonselective cation channel TRPA1 (FDSS)	Pain	2 mg	At least 25 Samples
N116	Voltage-gated potassium channel Kv1.1 (manual patch clamp)	Multiple sclerosis	2 mg	At least 5 Samples
N117	Voltage-gated potassium channel Kv1.2 (manual patch clamp)	Multiple sclerosis	2 mg	At least 5 Samples
N118	MES, PTZ	Epilepsy	50mg	At least 5 Samples
<u>Reproductive health-related drug screening assays</u>				
P006	Estrogen activity assay	Gynecological diseases	1-2 g	At least 5 Samples, Inquire
P001	Spermicidal test (in vitro)	Planned parenthood	5 mg	At least 5 Samples, Inquire
P007	Anti-estrogen activity test	Gynecological diseases	1-2 g	At least 5 Samples, Inquire
P005	Anti-ovulation test	Planned parenthood	2 g	At least 5 Samples, Inquire
P009	Antiandrogen activity test	Urological diseases	1-2 g	At least 5 Samples, Inquire
P012	Anti-progesterone activity test	Planned parenthood	1-2 g	At least 5 Samples, Inquire
P004	Terminating early pregnancy	Early pregnancy termination	2 g	At least 5 Samples, Inquire
P003	Anti-implantation test	Early pregnancy termination	2 g	At least 5 Samples, Inquire
P010	Sexual behavior test (mounting)	Urological diseases	2 g	At least 5 Samples, Inquire
P002	Human decidual cell growth inhibition assay	Early pregnancy termination	5 mg	At least 5 Samples, Inquire
P015	Mouse model for Prostatic Hyperplasia	Prostatic Hyperplasia	2 g	Inquire
P008	Androgen activity assay	Urological diseases	1-2 g	At least 5 Samples, Inquire
P013	Male anti-fertility test	Planned parenthood	2 g	At least 5 Samples, Inquire
P011	Progesterone activity assay	Gynecological diseases	1-2 g	At least 5 Samples, Inquire
P014	Experimental model for endometriosis (rats or rabbits)	Gynecological diseases	2 g	Inquire
<u>Respiratory disease-related drug screening assays</u>				
R001	β 2 Adrenergic Receptor Calcium Assay - Agonist	Asthma, Bronchospasm, COPD	2 mg	Collect 10 samples
R002	β 2 Adrenergic Receptor Calcium Assay - Antagonist	Asthma, Bronchospasm, COPD	2 mg	Collect 10 samples
<u>Metabolic disease-related drug screening assays</u>				
T013	Glucagon receptor cell-based assay	Metabolic diseases	5-10 mg	Collect 8 samples, Inquire
T005	Glucagon-like peptide-1 receptor cell-based assay	Diabetes, obesity	5-10 mg	At least 8 Samples, Inquire
T002	Leucocyte common antigen related protein	Diabetes, obesity	2 mg	At least 3 Samples
T001	Protein tyrosine phosphatase (PTP1B)	Diabetes, obesity	2 mg	At least 3 Samples
T047	PEPCK transcriptional level expression assay	Diabetes	2 mg	At least 3 Samples
T048	Triglyceride content assay	Diabetes	2 mg	At least 3 Samples
T021	IKK β	Diabetes, CAD	2 mg	At least 3 Samples
T036	PLK2	Diabetes	2 mg	At least 3 Samples

No.	Assay	Application	Amount required	Note
T037	PLK3	Diabetes	2 mg	At least 3 Samples
T022	PKC θ	Diabetes	2 mg	At least 3 Samples
T045	Endoplasmic reticulum (ER) stress-C/EBP homologues protein (CHOP) pathway inhibitor/activator	Diabetes and tumor	2 mg	At least 3 Samples
T046	Endoplasmic reticulum (ER) stress- GRP78 pathway inhibitor/activator	Diabetes and tumor	2 mg	At least 3 Samples
T015	Phosphorylation of Insulin receptor on CHO/Hir	Diabetes	2 mg	At least 3 Samples
T035	PLK1	Diabetes	2 mg	At least 3 Samples
T018	DPP IV	Diabetes	2 mg	At least 3 Samples
T023	DPP7	Diabetes	2 mg	At least 3 Samples
T024	DPP8	Diabetes	2 mg	At least 3 Samples
T025	DPP9	Diabetes	2 mg	At least 3 Samples
T044	Phosphorylation of AMPK and ACC on L6 myotubes	Diabetes	2 mg	At least 3 Samples
T026	GLUT4 translocation assay of 3T3-L1 cell lines	Diabetes	2 mg	At least 3 Samples
T007	Adipogenesis assay of 3T3-L1	Diabetes	5 mg	At least 3 Samples
T033	AMPK α 1, β 1, γ 1	Diabetes	2 mg	At least 3 Samples
T017	AMPK α 2 β 1 γ 1	Diabetes	2 mg	At least 3 Samples
T043	Glucose uptake of L6	Diabetes	2 mg	At least 3 Samples
T034	PDK1*	Diabetes	2 mg	At least 3 Samples
T016	Anti-insulin resistance (insulin induced)	Diabetes	2 mg	At least 3 Samples
T008	Glucose uptake of 3T3-L1	Diabetes	5 mg	Collect 5 samples
T009	Insulin secretion assay of HIT-T15	Diabetes	5 mg	At least 5 Samples, Inquire
T010	Chemical induced Diabetic mouse model	Diabetes	1-2 g	Inquire
T012	Glucosidase inhibition in vivo assay	Diabetes	1-2 g	Inquire
T011	Animal model for type 2 genetic Diabetes	Diabetes	1-2 g	Inquire
T014	Anti-osteoporosis assay	Osteoporosis	50-80 mg	Inquire
T027	Cannabinoid Receptor CB1 Calcium Assay - Agonist	Obesity, Drug Dependence, Substance Abuse, Memory Disorders, GI Track Disorders, Cardiovascular Diseases, Cancer	2 mg	Collect 10 samples
T028	Cannabinoid Receptor CB1 Calcium Assay - Antagonist	Obesity, Drug Dependence, Substance Abuse, Memory Disorders, GI Track Disorders, Cardiovascular Diseases, Cancer	2 mg	Collect 10 samples
T019	Cannabinoid Receptor CB1 Receptor Binding Assay	Obesity, Pain, Drug Addiction	2 mg	Collect 10 samples
T020	Cannabinoid Receptor CB2 Receptor Binding Assay	Inflammation, Osteoporosis, Pain	2 mg	Collect 10 samples
T031	Melanocortin Receptor 3 (MC3) Luciferase Assay - Agonist	Obesity, feeding disorder, sexual dysfunction	2 mg	Collect 10 samples
T032	Melanocortin Receptor 3 (MC3) Luciferase Assay - Antagonist	Obesity, feeding disorder, sexual dysfunction	2 mg	Collect 10 samples
T029	Melanocortin Receptor 4 (MC4) Luciferase Assay - Agonist	Obesity, feeding disorder, sexual dysfunction	2 mg	Collect 10 samples
T030	Melanocortin Receptor 4 (MC4) Luciferase Assay - Antagonist	Obesity, feeding disorder, sexual dysfunction	2 mg	Collect 10 samples
T049	β 3 Adrenergic Receptor Calcium Assay - Agonist	Obesity	2 mg	Collect 10 samples
T050	β 3 Adrenergic Receptor Calcium Assay - Antagonist	Obesity	2 mg	Collect 10 samples

No.	Assay	Application	Amount required	Note
T051	Glucagon Receptor (GCGR) Calcium Assay - Agonist	Diabetes	2 mg	Collect 10 samples
T052	Glucagon Receptor (GCGR) Calcium Assay - Antagonist	Diabetes	2 mg	Collect 10 samples
T053	Glucagon Like Peptide-1 Receptor (GLP-1R) Calcium Assay - Agonist	Diabetes	2 mg	Collect 10 samples
T054	Glucagon Like Peptide-1 Receptor (GLP-1R) Calcium Assay - Antagonist	Diabetes	2 mg	Collect 10 samples
T055	Neuromedin U Receptor 1 agonist assay (cell-based)	Metabolic diseases	5-10 mg	Collect 10 samples
T056	Neuromedin U Receptor 1 antagonist assay (cell-based)	Metabolic diseases	5-10 mg	Collect 10 samples
T057	GPR119 agonist assay (cell-based)	Metabolic diseases	5-10 mg	Collect 10 samples
T071	Voltage-gated potassium channel Kv2.1 (manual patch clamp)	Diabetes	2 mg	At least 5 Samples
<u>Anti-infection drug screening assays</u>				
V005	<i>Staphylococcus aureus</i>	Anti-bacterium	2 mg	Collect 10 samples
V009	<i>Staphylococcus epidermidis</i>	Anti-bacterium	2 mg	Collect 10 samples
V004	<i>Micrococcus luteus</i>	Anti-bacterium	2 mg	Collect 10 samples
V006	<i>Escherichia coli</i>	Anti-bacterium	2 mg	Collect 10 samples
V008	<i>Shigella</i>	Anti-bacterium	2 mg	Collect 10 samples
V007	<i>Pseudomonas aeruginosa</i>	Anti-bacterium	2 mg	Collect 10 samples
V012	<i>Candida albicans</i>	Anti-fungus	2 mg	Collect 10 samples
V010	<i>Streptococcus mutans</i>	Anti-anaerobic bacterium	2 mg	Collect 10 samples
V011	<i>Aspergillus niger</i>	Anti-fungus	2 mg	Collect 10 samples
V015	<i>Trichophyton rubrum</i>	Anti-fungus	2 mg	Collect 10 samples
V014	<i>Pityrosporum sabour</i>	Anti-fungus	2 mg	Collect 10 samples
V013	<i>Sake yeast</i>	Anti-fungus	2 mg	Collect 10 samples
V016	<i>Trichophyton mentagrophytes</i>	Anti-fungus	2 mg	Collect 10 samples
V062	<i>Cryptococcus neoformans</i>	Anti-fungus	2-6 mg	Collect 10 samples
V063	<i>Candida parapsilosis</i>	Anti-fungus	2-6 mg	Collect 10 samples
V064	<i>Candida glabrata</i>	Anti-fungus	2-6 mg	Collect 10 samples
V065	<i>Candida tropicalis</i>	Anti-fungus	2-6 mg	Collect 10 samples
V070	<i>Microsporium gypseum</i>	Anti-fungus	2-6 mg	Collect 10 samples
V071	<i>Aspergillus fumigatus</i>	Anti-fungus	2-6 mg	Collect 10 samples
V003	Influenza A virus (MDCK)	Anti-virus	5 mg	Collect 5 samples
V020	Influenza B virus (MDCK)	Anti-virus	5 mg	Collect 5 samples
V001	Herpes simplex virus type 1 (Vero)	Anti-virus	5 mg	Collect 5 samples
V019	Herpes simplex virus type 2 (Vero)	Anti-virus	5 mg	Collect 5 samples
V021	Coxsackie B3 virus (Vero)	Anti-virus	5 mg	Collect 5 samples
V022	Coxsackie B6 virus (Vero)	Anti-virus	5 mg	Collect 5 samples
V026	Human immunodeficiency virus-1 protease	Anti-virus	5 mg	Collect 10 samples
V024	Human immunodeficiency virus-1 reverse transcriptase	Anti-virus	5 mg	Collect 10 samples
V025	Human immunodeficiency virus-1 integrase	Anti-virus	5 mg	Collect 10 samples
V023	Duck hepatitis B virus replication complexes DNA polymerase	Anti-virus	5 mg	Collect 10 samples, Inquire
V061	Hepatitis B virus (HBsAg, HBeAg, DNA)	Anti-virus	10 mg	At least 5 Samples, Inquire
V072	the evaluation of dengue virus therapeutic agents	dengue virus	5-10 mg	Inquire
V073	the evaluation of HCV therapeutic agents	HCV	5-10 mg	Inquire
V074	the evaluation of Flu virus therapeutic agents	Flu virus	5-10 mg	Inquire

No.	Assay	Application	Amount required	Note
V039	HIV-1 IIIB	Anti-virus	20 mg	Inquire
V055	Respiratory syncytial virus (Hep-2)	Anti-virus	8 mg	Collect 5 samples, Inquire
V056	Adenovirus-3 (Hela)	Anti-virus	8 mg	Collect 5 samples, Inquire
V057	Adenovirus-7 (Hela)	Anti-virus	8 mg	Collect 5 samples, Inquire
V058	Human cytomegalovirus (Hel)	Anti-virus	8 mg	Collect 5 samples, Inquire
V059	Vesicular stomatitis virus (Vero)	Anti-virus	8 mg	Collect 5 samples, Inquire
V060	HCV protease	Anti-virus	5 mg	Collect 10 samples, Inquire
V037	Helicobacter pylori	Peptic ulcer	2-3 mg	Collect 10 samples
V017	Methionine Aminopeptidase from <i>E. coli</i> (<i>EcMetAP1</i>)	Anti-bacterium	2 mg	At least 10 Samples
V018	Methionine Aminopeptidase type I from <i>S. cerevisin</i> (<i>ScMetAP1</i>)	Anti-fungus	2 mg	At least 10 Samples
V027	SARS 3C-like proteinase	Anti-Sars	2 mg	At least 3 Samples
V038	SHP1	Infections disease	2 mg	At least 3 Samples
Others				
0003	Caspase-10	Cross-reactivity	2 mg	At least 3 Samples
0002	Caspase-4	Cross-reactivity	2 mg	At least 3 Samples
0057	MMP26	Cross-reactivity	2 mg	At least 3 Samples
0001	DUSP13	Cross-reactivity	2 mg	At least 3 Samples
0058	Human cytochrome P450/CYP1A2	pharmacokinetics	2 mg	At least 3 Samples
0060	Human cytochrome P450/CYP2C19 assay	pharmacokinetics	2 mg	At least 3 Samples
0059	Human cytochrome P450/CYP2C9	pharmacokinetics	2 mg	At least 3 Samples
0061	Human cytochrome P450/CYP2D6 assay	pharmacokinetics	2 mg	At least 3 Samples
0062	Human cytochrome P450/CYP3A4 assay	pharmacokinetics	2 mg	At least 3 Samples
0020	IKBKB (IKK beta)		2 mg	At least 3 Samples
0035	PKA		2 mg	At least 3 Samples
0022	JAK3		2 mg	At least 3 Samples
0006	AKT3 (PKB gamma)	Cross-reactivity	2 mg	At least 3 Samples
0036	PKC alpha		2 mg	At least 3 Samples
0037	PKC beta I		2 mg	At least 3 Samples
0038	PKC beta II		2 mg	At least 3 Samples
0039	PKC delta		2 mg	At least 3 Samples
0040	PKC epsilon		2 mg	At least 3 Samples
0041	PKC eta		2 mg	At least 3 Samples
0042	PKC gamma		2 mg	At least 3 Samples
0043	PKC iota		2 mg	At least 3 Samples
0044	PKC zeta		2 mg	At least 3 Samples
0046	PRKD1 (PKD, PKC mu)		2 mg	At least 3 Samples
0047	PRKD2 (PKD2)		2 mg	At least 3 Samples
0045	PRKCN (PKD3)		2 mg	At least 3 Samples
0011	CaMKII alpha		2 mg	At least 3 Samples
0012	CaMKII beta		2 mg	At least 3 Samples
0013	CaMKII delta		2 mg	At least 3 Samples
0014	CaMKK beta		2 mg	At least 3 Samples
0051	RPS6KA1 (RSK1)		2 mg	At least 3 Samples
0052	RPS6KA2 (RSK3)		2 mg	At least 3 Samples
0053	RPS6KA3 (RSK2)		2 mg	At least 3 Samples
0055	RPS6KA5 (MSK1)		2 mg	At least 3 Samples
0056	RPS6KA6 (RSK4)		2 mg	At least 3 Samples
0049	PRKG2 (PKG2)		2 mg	At least 3 Samples
0048	PRKG1 (PKG1)		2 mg	At least 3 Samples
0029	MAPK12 (p38 gamma)		2 mg	At least 3 Samples
0019	GSK3 alpha	Cross-reactivity	2 mg	At least 3 Samples
0015	CDK1/cyclin B		2 mg	At least 3 Samples
0017	CDK5/p35		2 mg	At least 3 Samples
0009	BRSK1		2 mg	At least 3 Samples
0018	CHEK1 (CHK1)		2 mg	At least 3 Samples
0021	JAK1		2 mg	At least 3 Samples

No.	Assay	Application	Amount required	Note
0005	beta-secretase 2	Cross-reactivity	2 mg	At least 3 Samples
0023	LTK		2 mg	At least 3 Samples
0004	FAP	Cross-reactivity	2 mg	At least 3 Samples
0050	PTK2B (FAK2)		2 mg	At least 3 Samples
0010	CaMKI delta		2 mg	At least 3 Samples
0027	MAPK10 (JNK3)*		2 mg	At least 3 Samples
0030	MAPK13 (p38 delta)		2 mg	At least 3 Samples
0031	MAPK14 (p38 alpha)*		2 mg	At least 3 Samples
0032	MAPK8 (JNK1)*		2 mg	At least 3 Samples
0033	MAPK9 (JNK2)*		2 mg	At least 3 Samples
0016	CDK2/cyclin A		2 mg	At least 3 Samples
0008	Aurora C	Cross-reactivity	2 mg	At least 3 Samples
0054	RPS6KA4 (MSK2)		2 mg	At least 3 Samples
0028	MAPK11 (p38 beta)		2 mg	At least 3 Samples
0024	MAP2K1 (MEK1)*		2 mg	At least 3 Samples
0025	MAP2K2 (MEK2)*		2 mg	At least 3 Samples
0026	MAP2K6 (MKK6)*		2 mg	At least 3 Samples
0034	MARK1		2 mg	At least 3 Samples
0007	Aurora B	Cross-reactivity	2 mg	At least 3 Samples