Supplemental Materials

Supplemental Methods

Test Substance Preparation and Dosing: For two test substances (kaempferol and silybin), the solution and extract were prepared from the same lot of material. Two constituent solutions (citral and curcumin) were plated in duplicate to fill a total of 352 wells. For this study, the log10 of dilution factor (square root of 5) was used.

Cell Culture Conditions: HepG2 and HEK-293 cells were purchased from American Type Culture Collection (ATCC, Manassas, VA). HepG2 cells were cultured in Eagle's Minimum Essential Medium (EMEM, ATCC) and HEK-293 cells in Dulbecco's Modified Eagle's Medium (DMEM, Life Technologies Corporation, Carlsbad, CA), and both supplemented with 10% Hyclone's Fetal Bovine Serum (FBS; ThermoFisher Scientific, Waltham, MA), and 100 U/ml penicillin-100 µg/ml streptomycin (Life Technologies Corporation).

MDA-kb2-AR cell line was purchased from ATCC, and was developed from the parental cell line MDA-MB-453 of human breast cancer cells, expresses firefly luciferase under control of the MMTV promoter that contains response elements for both glucocorticoid receptors (GR) and androgen receptors (AR). MDA-kb2-AR cells were cultured in L-15 Medium (ATCC) supplemented with 10% FBS, and 100 U/mL penicillin-100 µg/mL streptomycin.

ATAD5 cell line was provided by Dr. Kyungjae Myung (NHGRI, NIH) and contains a firefly luciferase reporter-gene tagged with ATAD5.¹ ATAD5 cell line was used identify the compounds that cause DNA damage/genetic stress. ATAD5 cells were cultured in DMEM supplemented with 10% FBS, and 100 U/ml penicillin-100 μg/ml streptomycin.

MCF-7 aro-ERE cell line provided by Dr. Shiuan Chen (Beckman Research Institute, CA) is a human breast carcinoma cell line that was stably transfected with a promoter plasmid, pGL3-Luc, containing three repeats of estrogen responsive element (ERE). MCF-7 aro-ERE cells were used to screen aromatase inhibitors, estrogen receptor (ER) agonists and ER antagonists.² MCF-7 aro ERE cells were cultured in MEM/EBSS Medium (Hyclone) supplemented with 10% FBS, 20 µg/ml Hygromycin, 50 µg/ml G418 and 100 U/mL penicillin-100 µg/mL streptomycin.

VM7Luc4E2 and HG2L7.5c1 cell lines were provided by Dr. Michael S. Denison (University of California, Davis). VM7Luc4E2 endogenously expresses full-length ERα and is stably transfected with a plasmid containing four estrogen responsive elements (ERE) upstream of a luciferase reporter gene. VM7Luc4E2 cells were used to screen ERα agonists and antagonists. Whereas HG2L7.5c1 cells were used to identify the compounds that induce AhR activation and contains HepG2 cells that are stably transfected with an Aryl hydrocarbon Receptor (AhR)-responsive firefly luciferase reporter. Both VM7Luc4E2 and HG2L7.5c1 cells were cultured in MEMα medium (Life Technologies) supplemented with 10% Premium FBS (Atlanta Biologicals, Flowery Branch, GA), 400 µg/ml G418, and 100 U/mL penicillin-100 µg/mL streptomycin.

HSE-*bla* Hela, ARE-*bla* HepG2, PPAR gamma-UAS-*bla* 293H, and p53-*bla* HCT-116 cells were purchased from Life Technologies. These cell lines contains a β-lactamase reporter gene under control of a heat shock response element (HSE), antioxidant response element (ARE), peroxisome proliferator-activated receptor gamma (PPAR-gamma), and p53 response elements that have been stably integrated into HeLa, HepG2, 293 H, HCT-116 cells respectively. All the recommended culture medium components were purchased from Life Technologies. All cells were cultured and maintained at 37°C under a humidified atmosphere and 5% CO₂, except MDA-kb2-AR cells which were cultured and maintained at 37°C under a humidified atmosphere and 0% CO₂. All detailed

descriptions of the assays are publicly available through the NCATS website (https://tripod.nih.gov/tox21/assays/) and PubChem.

ATAD5, AR-MDA, and AhR luciferase (luc) reporter gene assays: ATAD5-Luc, MDA-kb2-AR, and HG2L7.5c1 cells were dispensed at 2000, 3000, and 4000/5 µL/well respectively and 3000/4 µL/well (MDA-kb2-AR antagonist mode) in 1536-well tissue culture treated white wall/solid bottom plates (Greiner Bio-One North America, Monroe, NC) using a Multidrop Combi dispenser (ThermoFisher Scientific, Waltham, MA). After the assay plates were incubated at 37°C for 5 h, 23 nL of compounds dissolved in DMSO, positive and negative controls were transferred to the assay plates using a Pintool station (Wako, San Diego, CA). For MDA-kb2-AR antagonist mode, 1 µL/well agonist (10 nM R1881) or assay medium was added to each well using a Flying Reagent Dispenser (FRD, Aurora Discovery, Carlsbad, CA). The assay plates were incubated for 16 h (ATAD5-Luc and MDA-kb2-AR) and 24 h (HG2L7.5c1) at 37°C. For cell viability assay, 1 µL/well CellTiter-Fluor™ Cell Viabillity reagent (Promega Corporation, Madison, WI) was added to each well using an FRD. After 0.5 h incubation at 37°C, the fluorescence intensity was measured using a ViewLux plate reader (PerkinElmer, Shelton, CT). For luciferase reporter gene assay, 4 µL/well Amplite[™] Luciferase Assay reagent (ATAD5; AAT Bioquest®, Inc. Sunnyvale, CA) and ONE-Glo[™] Luciferase Assay reagent (MDA-kb2-AR and HG2L7.5c1; Promega Corporation) was added to each well using an FRD. After 0.5 h incubation at room temperature, the luminescence intensity was measured using a ViewLux plate reader. Data were represented as relative fluorescence units (cell viability assay) and relative luminescence units (luciferase reporter assay).

MCF-7 aro-ERE and ER-vMCF-7-Luc luciferase reporter gene assays: MCF-7 aro-ERE and VM7Luc4E2 cells were dispensed at 1500 and 4000 respectively in 5 µL/well (agonist mode) and

4 μ L/well (antagonist mode) in 1536-well tissue culture treated white wall/solid bottom plates (Greiner Bio-One) using a Multidrop Combi dispenser. After the assay plates were incubated at 37°C for 5 h (MCF-7 aro-ERE) and 24 h (VM7Luc4E2), 23 nL of compounds dissolved in DMSO, positive and negative controls were transferred to the assay plates using a Pintool station. For antagonist modes, 1 µL/well agonist (0.2 and 0.5 nM β-Estradiol for MCF-7 aro-ERE and VM7Luc4E2 respectively and 0.5 nM Testosterone for MCF-7 aro-ERE testing aromatase activity) or assay medium was added to each well using an FRD. The assay plates were incubated for 22 h (VM7Luc4E2) and 24 h (MCF-7 aro-ERE) at 37°C. For cell viability assay, 1 µL/well CellTiter-FluorTM Cell Viabillity reagent (Promega Corporation, Madison, WI) was added to each well using an FRD. After 0.5 h incubation at 37°C, the fluorescence intensity was measured using a ViewLux plate reader. For luciferase reporter gene assay, 4 µL/well ONE-Glo[™] Luciferase Assay reagent was added to each well using an FRD. After 0.5 h incubation at room temperature, the luminescence intensity was measured using a ViewLux plate reader. Data were represented as relative fluorescence units (cell viability assay) and relative luminescence units (luciferase reporter assay).

Real Time Cell Viability Assay: To monitor cytotoxicity and cell viability in real time of continues cell culture, a multiplex assay by combining RealTime-GloTM MT Cell Viability Assay (Promega Corporation) and CellToxTM Green Cytotoxicity Assay were used.³ The mixture of HepG2 cell or HEK293 cell suspension and reagents were dispensed at 600 cells/6 µl/well in 1536-well tissue culture treated black wall/solid bottom plates (Greiner Bio-One) using a Multidrop Combi dispenser. After the assay plates were incubated at 37°C for 5 h, 23 nL of compounds dissolved in DMSO, positive and negative controls were transferred to the assay plates using a Pintool station. The assay plates were incubated at 37°C for 40 h. The fluorescence and luminescence intensities

were measured at 0, 8, 16, 24, 32, and 40 h time points using a ViewLux plate reader (PerkinElmer) during compound treatment.

HSE, ARE, PPAR-gamma, and p53 *β*-lactamase (bla) reporter gene assays: HSE-bla Hela, ARE-bla HepG2, PPAR gamma-UAS-bla 293H, and p53-bla HCT-116 cells were dispensed at 1500, 2000, 3000, and 4000 respectively in 6 µL/well and 5 µL/well (PPAR-gamma antagonist mode) in 1536-well tissue culture treated black wall/clear bottom plates (Greiner Bio-One) using a Multidrop Combi dispenser. After the assay plates were incubated at 37°C for 5-6 h (ARE-bla, HSE-bla, PPAR gamma-bla, and p53-bla) and 18 h (HSE-bla), 23 nL of compounds dissolved in DMSO, positive and negative controls were transferred to the assay plates using a Pintool station. For PPAR-gamma antagonist mode, 1 µL/well agonist (50 nM Rosiglitazone) or assay medium was added to each well using an FRD. The assay plates were incubated for 5 h (HSE-bla), 16 h (ARE-*bla* and p53-*bla*), and 17 h (PPAR gamma-*bla*) at 37°C. For β-lactamase assay, 1 µL/well LiveBLAzerTM FRET-B/G CCF4-AM substrate (Life Technologies) detection mix was added to each well using an FRD. After 2 h incubation at room temperature, the fluorescence intensity was measured using an Envision plate reader (PerkinElmer) at 405 nm excitation, 460 and 530 nm emissions. For cell viability assay, 3-4 µL/well CellTiter-Glo® Luminescent Cell Viabillity reagent (Promega) was added to each well using an FRD. After 0.5 h incubation at room temperature, the luminescence intensity was measured using a ViewLux plate reader (PerkinElmer). Data were represented as relative fluorescence units (β -lactamase assay; final data expressed as the ratio of 460/530 nm emission values) and relative luminescence units (cell viability assay).

Mitochondrial Membrane Potential (MMP) assay: The MMP assay fluorescence readout measures changes in mitochondrial membrane potential. HepG2 cells were dispensed at 2000

cells/5 µL/well in 1536-well tissue culture treated black wall/clear bottom plates (Greiner Bio-One) using a Multidrop Combi dispenser.⁴ After the assay plates were incubated at 37°C for 18 h, 23 nL of compounds dissolved in DMSO, positive and negative controls were transferred to the assay plate using a Pintool station. The assay plates were incubated for 1 h at 37°C. Then 5 µL/well of Mito-MPS dye loading solution (Codex BioSolutions, Inc. Gaithersburg, MD) was added to each well using and FRD. After 0.5 h incubation at 37°C, the fluorescence intensity (490 nm excitation and 535 nm emission for green fluorescent monomers, and 540 nm excitation and 590 nm emission for red fluorescent aggregates) was measured using an Envision plate reader. Data were represented as relative fluorescence units (final data expressed as the ratio of 590/535 nm emission values).

Data Analyses: The new wAUC metric has more compact scale of values due to its normalization relative to the infinite dilution concentration, to enable comparisons at alternate exposure concentration ranges/units. Decreasing effects were flagged for cytotoxicity if the POD value of the effect was not more potent than the POD of cytotoxicity from an assay's counter-screen. Also, the effects identified in the β-lactamase assays were flagged if the responses in the reporter gene channel readout were not matched with the responses after normalization to background. Analysis of compound concentration–response data was performed as previously described Huang 2016.⁵ Briefly, raw plate reads for each titration point were first normalized relative to the positive control compound (-100% for antagonist mode and 100% for agonist mode) and DMSO-only wells (0%) as follows: % Activity = ((Vcompound – V_{DMSO})/(Vpos – V_{DMSO})) ×100, where Vcompound denotes the compound well values, Vpos denotes the median value of the positive control wells, and V_{DMSO} denotes the median values of the DMSO-only wells, and then corrected by applying a NCATS in-house pattern correction algorithm.⁶ Concentration–response titration points for each

compound were fitted to a four-parameter Hill equation yielding concentrations of half-maximal inhibitory activity (IC_{50}) or half-maximal stimulatory activity (EC_{50}) and maximal response (efficacy) values.⁷ Compounds were designated as Class 1–4 according to the type of concentration–response curve observed.^{5,8}

Noise level (threshold, THR) as the Curvep input: Curvep, a response noise filtering algorithm, was used to process the curves. Curvep relies on user-defined thresholds such as the baseline noise threshold (THR) and the maximum curve deviation (MXDV) to filter the response noise. Among thresholds, it is known that the THR has direct and significant impact on defining activity of testing chemicals.

As the THR is a user-defined parameter, we think that the optimal THR should reflect the intrinsic response variation in the screening data of the substances and has the meaning of minimum response threshold. To achieve this, we iteratively applied Curvep using various THRs on the simulated curves derived from the screening data of the substances, and the optimal THR was identified as the lowest THR at which the variance in potency estimation was sufficiently reduced.⁹ The specific details are explained as follows:

Curve simulation: The response of a curve for each substance was calculated using the Equation 1, where $\widehat{\beta}_0$ and $\widehat{\beta}_1$ were estimated from the linear regression with response as dependent variable and concentration as independent variance from the screening data and ε is the randomly generated noise

$$y = \widehat{\beta_0} + \widehat{\beta_1} x_1 + \varepsilon$$

The noise was generated from bootstrapping responses from a normal distribution with mean = 0and SD = standard deviation of responses from vehicle control-only wells. In total, 100 curves were created for each substance in every readout. For each readout, to identify the optimal THR for either increased or decreased effect, THR from 5% to 95% with an increment of 5% was applied on the simulated curves. Then, the potency/concentration at x threshold was reported (x is 5% to 95% with an increment of 5%) for each simulated curve. For inactive curve (i.e., all responses = 0 after Curvep), the potency was fixed to the maximum tested concentration. The pooled variance of potency of all substances for each THR was calculated. The optimal THR was considered as the lowest THR at which the variance in potency estimation was sufficiently reduced and stabilized. The implementation for identification of the optimal THR is available in the R package, Rcurvep (github.com/moggces/Rcurvep, v0.3.1)

Rcurvep method and metric: Curvep is a non-parametric algorithm that minimizes the number of corrections needed to restore curve's monotonicity.¹⁰ Corrected data points are then imputed, on log-concentration scale, from the linear splines between the remaining adjacent points. Based on the corrected curve, several metrics are calculated in the corresponding Rcurvep package (github.com/moggces/Rcurvep, v0.3.1), such as: effective concentrations (EC_{xx}) at various relative levels of response, maximal response (E_{max}), slope of the mid-curve (between EC₂₅ and EC₇₅), point-of-departure (POD) as the concentration at which significant level (as defined by user-set threshold) of response is reached, response-weighted concentration (wConc), concentration-weighted response (wResp), area-under-curve (AUC), and wAUC, which is AUC weighted by POD and test range. The updated wAUC (as implemented in Rcurvep) is calculated as AUC * (LO – L) / (POD – L) / (HI– L), where LO and HI are log-transformed lowest and highest test doses, and L is a log-dose for infinite dilution (set by default to -24 in log-molar units, as approximation based on Avogadro constant). Among the curves with the same AUC, this wAUC equation gives

higher weight to curves with lower (more potent) POD and narrower test range (lower HI, and higher LO).

Supplemental Tables

Supplemental Data Table 1: Botanical/Dietary test substance identity and procurement inventory.

NGCG007878-01 Aveals Extra Add Poort Aveals estrat 651C00 mpirt 788 NGCG00778-01 Aveals Extra Add Poort Aveals extra Add Poort NGCG00778-01 mpirt NGCG00778-01 NGCG00778-01 Aveals Extra Add Poort Aveals extra Add Poort NGCG00778-01 mpirt NGCG00778-01 NGCG00778-01 Aveals Extra Add Poort Aveals extra Add Poort REG NGCG00778-01 NGT NGCG00778-01 NGT NGCG00778-01 NGT NGCG0077	Sample ID	Test Substance Name	Botanical Group	Formulation	Lot #	Stock Units	Stock mg/mL Equivalents
NGCC007279-01 Nameb Extrate D S. Annabo extrate 4000CC mpint III NGCC007270-01 Nameb Food Core, Act Prof Annabo extrat P7711 mpint III NGCC007270-01 Nameb Food Core, Act Prof Annabo extrat P7781 mpint III NGCC007270-01 Nameb Food Core, Act Prof Annabo extrat P7781 mpint III NGCC007270-01 Nameb Food Core, Act Prof Annabo extrat P7781 mpint III NGCC007278-01 Nameb Food Core, Act Prof Annabo extrat P7781 mpint III NGCC007278-01 Nameb Food Core, Act Prof Annabo extrat P7781 mpint III NGCC007278-01 Nexi Want Core Annabo extrat P7781 mpint III NGCC007778-01 Nexi Want Core	NCGC00372657-01	Annatto Extract Acid Proof	Annatto	extract	5512CD	mg/ml	7.686
NGCC0007279-01 Annab Estat OVO Annab extent FM41 mgmt tt NGCC0007279-01 Annab Food Cox, No. 4 Annab extent 57881 mgmt tt NGCC0007279-01 Annab Food Cox, No. 4 Annab extent 57881 mgmt tt NGCC007278-01 Annab Food Cox, No. 4 Annab extent 67881 mgmt tt NGCC007278-01 Annab Food Cox, No. 4 Annab extent 67881 mgmt tt NGCC007278-01 Binn Marth Power Annab extent 6782 mgmt tt NGCC007278-01 Binn Marth Power Annab extent 6792 mgmt tt NGCC007278-01 Binn Marth Power Annab extent 6703 mgmt tt NGCC007278-01 Binn Marth Power Annab extent 6400180 mgmt tt NGCC007278-01 Binn Marth Power Annab extent 6400180 mgmt tt NGCC007278-01 Binn Marth	NCGC00372562-01	Annatto Extract D.S.	Annatto	extract	4208CC	mg/ml	10
National Science Anable <	NCGC00372567-01	Annatto Extract OWD	Annatto	extract	R441	mg/ml	10
No.00000789-01 Animalia Fouch Color, Ro. 4 (0) Arrange Martine Port Color, Ro. 4 (0) Martine Port Color, Ro. 4 (0) Martine Port Color, Ro.	NCGC003/2/60-01	Annatto Food color, 200	Annatto	extract	98131	mg/ml	10
NG2003281-50 Anabo Pode (Rein) Anabo estact 4490C regin It NG2007281-50 Anabo Pode (Rein) Anabo extact BMD regin It NG2007281-50 Anabo Pode (Rein) Anabo extact BMD regin It NG2007281-50 Bin Anabo constanct UD4845 regin It NG2007281-50 Bin Anabo constanct UD4845 regin It NG2007281-50 Bin MG2007281-50 Bin NG2007281-50 It regin It NG2007281-50 Bin MG2007281-50 Columnod D1 Columnod D1 It TG200781-70 Bin NG200781-70 Bin NG1 COlumnod D1 It NG200781-71 NG200781-71 NG200781-71 NG200781-71 NG200781-71 NG200781-71 NG200781-71 NG200781-71 NG1 NG200781-71 NG1 NG200781-71 NG1 NG200781-71 NG1 NG200781-71 NG1 NG200781-71 NG1 NG1	NCGC00372793-01	Annatto Food Color, No. 4	Annatto	extract	97881	mg/ml	10
NC2C002787:01 Anatab Pontab Ponta P	NCGC00372615-01	Annatto Oil Soluble	Annatto	extract	4491CC	ma/ml	10
NCCC0007870-00 Annatio extract BBR1 mphri 11 NCCC007878-00 Bion Annatio constituant 41/22 mphri 11 NCCC007878-00 Bion Annatio constituant 41/22 mphri 11 NCCC007878-01 Bion Market Annatio 0050-00 mphri 11 NCCC007878-01 Bion Market Encl. Market mphri 11 NCCC007878-01 Bion Market Encl. Market mphri 11 NCCC007878-01 Bion Market Encl. Market mphri 11 NCCC007878-01 Contanuot Chaleneod Ol 01 7125000 mphri 11 NCCC007878-01 Contanuot Chaleneod Ol 01 7125000 mphri 11 NCCC007878-01 Contanuot Chaleneod Ol 01 712640 mphri 11 NCCC007878-01 Chaleneod Contanu Contanu Chaleneod Contanu 11	NCGC00372875-01	Annatto Powder (Bixin)	Annatto	extract	98481	mg/ml	10
NGC0027878-01 Untake Arrande Poeder Arrande estand B1-A2 mg/m It NGC0027878-01 Bine Value Enror-Linghene BineValue Enror-Linghene BineValue Enror-Linghene <td>NCGC00372880-01</td> <td>Annatto Powder, Type 17.5G</td> <td>Annatto</td> <td>extract</td> <td>98921</td> <td>mg/ml</td> <td>10</td>	NCGC00372880-01	Annatto Powder, Type 17.5G	Annatto	extract	98921	mg/ml	10
NGCC0072780-01 Bin Analab consistent 40°26 mymit II NGCC0072780-01 Bink Wank EntracUuglone <	NCGC00372870-01	Ultrabix Annatto Powder	Annatto	extract	831AZ	mg/ml	10
MC8120022929:00-01 Ban Arrange constituent UL0464 mghrd 11 MC8120022928-01 Back Want Entract/Lugione Back Want Arrange Back Want Entract/Lugione Back Want Arrange MC812002774-01 MC8120027720-01 MC914101 MC81200277	NCGC00372666-01	Bixin	Annatto	constituent	40F26	mg/ml	10
Null Colony Bask Manual Cartage Disk Manual Disk Manual <th< td=""><td>NCGC00372805-01</td><td>Bixin</td><td>Annatto</td><td>constituent</td><td>UJ0945</td><td>mg/ml</td><td>10</td></th<>	NCGC00372805-01	Bixin	Annatto	constituent	UJ0945	mg/ml	10
NACCOUNTY Back Mark Desk Mark <t< td=""><td>NCGC00372572-01</td><td>Black Walnut Extract/Juglone</td><td>Black Walnut</td><td>extract</td><td>010013</td><td>mg/mi</td><td>10</td></t<>	NCGC00372572-01	Black Walnut Extract/Juglone	Black Walnut	extract	010013	mg/mi	10
NGC0007279-01 Back VMalu Enstabulgion Back VMalu Enstabulgion Back VMalu Enstabulgion Back VMalu Enstabulgion International Control Contro Contro Control Control Control Contro Control Control Control C	NCGC00372577-01	Black Walnut Extract/Jugione	Black Walnut	extract	001784	mg/ml	10
NGCC007278-01 Bink Yanua Estraticulgione Bink Yanua estrat 900 mgml 11 NGCC007278-01 Cedarewood Ol ol T1200030 P mgml 11 NGCC007278-01 Cedarewood Ol ol T1200030 P mgml 11 NGCC007278-01 Cedarewood Ol ol T1200030 P mgml 11 NGCC007278-01 Celasian Constant Celasian	NCGC00372770-01	Black Walnut Extract/Jugione	Black Walnut	extract	145091800	mg/ml	10
NGCG0027896 Cedarwood OI Cedarwood OI </td <td>NCGC00372784-01</td> <td>Black Walnut Extract/Juglone</td> <td>Black Walnut</td> <td>extract</td> <td>9300</td> <td>mg/ml</td> <td>10</td>	NCGC00372784-01	Black Walnut Extract/Juglone	Black Walnut	extract	9300	mg/ml	10
NGC00027297-01 Cedawood Di Old Notan Onboisan Constituet Oz-AUSP-070 mg/m 11 NGC0002727-01 Christian Constituet Oz-AUSP-070 mg/m 11 NGC0002727-01 Carl al Constituet Oz-AUSP-070 mg/m 11 NGC0002727-01 Carl al Constituet Ox402AC mg/m 20 NGC0002727-01 Carl al Constituet N4200AC mg/m 11 NGC0002727-01 Carl al Control photo Control photo mg/m 11 NGC00027276-01 Control photo Control photo control photo GB00070AP mg/m 11 NGC00027278-01 Control photo Control photo GB00070AP mg/m 11 NGC00027278-01 Carl ol Control photo GB00070AP mg/m 11 NGC00027278-01 Carl ol Garl ol GB60077 mg/m 11 NGC00027278-01 Carl ol Garl ol GB60071 mg/m 11 NGC00027278-01<	NCGC00372566-01	Cedarwood Oil	Cedarwood Oil	oil	T122303DP	mg/ml	10
NGSG0027271-01 Chitosan Onitosan Constant	NCGC00372656-01	Cedarwood Oil	Cedarwood Oil	oil	T110603JB	mg/ml	10
NGGC0002780-01 Christian Constituent VEASBE-0715 mg/m1 Tit NGGC0007277-00 Chrait Constituent MGGC007 mg/m1 Tit NGGC0007278-01 Chrait Constituent MGGC007 mg/m1 Tit NGGC000728-01 Chrait Constituent MGGC007 mg/m1 Tit NGGC0007278-01 Confrey Root Confrey Root Restruct BG80070A mg/m1 Tit NGGC0007278-01 Conrol PRot Conrol of all GG80077 mg/m1 Tit NGGC0007278-01 Conrol of Conrol of Conrol of Goro of all GG80077 mg/m1 Tit NGGC0007278-01 Conrol of Goro	NCGC00372571-01	Chitosan	Chitosan	constituent	02-CLVB-0760	mg/ml	10
NGGC0027278-01 Cliral Construct TG680076 mp/m tot NGGC0027278-01 Cliral Construct YG4-85 mp/m 10 NGGC0027278-01 Cliral Construct YG4-85 mp/m 10 NGGC0027278-01 Confrey Rod Confrey Rod extract 105898 mp/m 11 NGGC0027278-01 Confrey Rod Confrey Rod extract 105898 mp/m 11 NGGC0027278-01 Confrey Rod Confrey Rod extract 105898 mp/m 11 NGGC0027286-01 Echnicas parpurate extract ESH0000-01 extract 10560-01 11 NGGC0027286-01 Echnicas parpurate extract ESH0000-01 mp/m 11 NGGC0027286-01 Echnicas parpurate extract ESH0000000 mp/m 12 NGGC0027287-01 Ginkgo Bbba extract DSH-0000000 mp/m 11 NGGC0027287-01 Ginkgo Bbba construct DSH-0000000 mp/m 11 NGGC0027278-01 Ginkgo	NCGC00372661-01	Chitosan	Chitosan	constituent	02-ASSF-0715	mg/ml	10
NGC000272840 Otrail Constituent 04402AO mg/m 11 NGC000272840 Carlai Constituent 04402AO mg/m 11 NGC000272750 Carlai Constituent 05698 mg/m 11 NGC000272750 Confrey Root Confrey Root Confrey Root	NCGC00372570-01	Citral	Citral	constituent	TG6930PG	mg/ml	10
Nucleosystepsile Lotinal Contral	NCGC00372576-01	Citral	Citral	constituent	04402AQ	mM	3.09
No.G.G.00072775-01 Diral Contray Rod Confiny Rod <thconfiny rod<="" th=""> Confiny Rod</thconfiny>	NCGC00372646-01	Citral	Citral	constituent	/924-85 M121094	mg/ml	10
NGG0007278-01 Contrey Root Contrey Root extract 10588 mg/ml TI NGG0007278-01 Conn ol ol 0500703-7 mg/ml TI NGG0007278-01 Conn ol ol 0500703-7 mg/ml TI NGG0007278-01 Conn ol ol 050070-7 mg/ml TI NGG0007278-01 Enhances purpures, extract Conn ol 0001000 mg/ml TI NGG0007278-01 Gnixpg Bloba Extract Chixpg Bloba extract 0001000 mg/ml TI NGG0007278-01 Gnixpg Bloba Extract Chixpg Bloba extract 8K13-2C mg/ml TI NGG0007287-01 Gancy Bloba Extract Chixpg Bloba constluent 684458 mg/ml TI NGG0007287-01 Quarcetin Chixpg Bloba constluent 696-048-188 mg/ml TI NGG0007287-01 Quarcetin Ghixpg Bloba constluent 696-048-188 mg/ml TI NGG00072787-01 Quarcetin Ghixpg Bloba cons	NCGC00372651-01	Citral	Citral	constituent	0440240	mg/m	3.09
NGC0007278-0-0 Controly Root Controly Root B03700AP mg/ml TI NGC0007278-0-0 Corn ol Orn ol Od B050077 mg/ml TI NGC0007278-0-0 Grinko Bibob Extract	NCGC00372575-01	Comfrey Boot	Comfrey Boot	extract	105888	ma/ml	10
NGC00077278-00 Corn of Other Other of Other of	NCGC00372764-01	Comfrey Root	Comfrey Root	extract	B020703AP	ma/ml	10
NGC0037278-01 Corn ol Ort nol extract Model mg/ml 11 NGC0037258-01 Ginkgo Bibba Extract Ginkgo Bibba Ex	NCGC00372560-01	Corn oil	Corn oil	oil	065K0077	mg/ml	10
NGC0007269-0 Enhnacea purpurea, extr. Enhnacea purpurea, extr. 601-623 mg/ml 11 NGC0007278-0 Ginkgo Bibba Extract Ginkgo Bibba extract CBikgo Bibba Extract Ginkgo Bibba extract CBikgo Bibba Extract Ginkgo Bibba Extract CBikgo Bibba Extrat CBikgo Bibba Extract CBikgo	NCGC00372769-01	Corn oil	Corn oil	oil	46006-4	mg/ml	10
NGC0007278-00 Ginkgo Biloba Extract Gin	NCGC00372565-01	Echinacea purpurea, ext.	Echinacea purpurea	extract	0601-6233	mg/ml	10
NGC00037278-0 Ginkgo Bibola Extract Gin	NCGC00372569-01	Ginkgo Biloba Extract	Ginkgo Biloba	extract	001003	mg/ml	10
NGC0007278-01 Ginkog Bibba Levraet Ginkog Bibba Levraet Ginkog Bibba Levraet Ginkog Bibba Levraet Bibba Constituent 142445 mg/ml Tri NGC00072788-01 Kaempferol Ginkog Bibba constituent 142445 mg/ml Tri NGC0007278-01 Quarcetin Ginkog Bibba constituent 142445 mg/ml Tri NGC0007278-01 Quarcetin Ginkog Bibba constituent 1624-082. mg/ml Tri NGC0007278-01 Quarcetin Ginkog Bibba constituent 1692-0766 mg/ml Tri NGC0007278-01 Goldemeal Goldemeal extract 1992-0766 mg/ml Tri NGC0007278-01 Goldemeal-Rot Powder Goldemeal extract 1992-0766 mg/ml Tri NGC0007278-01 Goldemeal-Rot Powder Goldemeal extract 1915-18 mg/ml Tri NGC0007278-01 Goldemeal-Rot Powder Goldemeal extract 1926-158 mg/ml Tri NGC0007278-01 Goldemeal-Rot Po	NCGC00372578-01	Ginkgo Biloba Extract	Ginkgo Biloba	extract	020703	mg/ml	10
NLGL00072789-01 Ginkgo Biloba Construent 182-42 mg/ml Tit NLGL00072887-70 Kamepferol Ginkgo Biloba constituent 142-445 mg/ml Tit NLGL00072887-70 Kamepferol Ginkgo Biloba constituent 968-0483-1881 mg/ml Tit NLGL00072786-70 Quarcetin Ginkgo Biloba constituent 968-0483-1881 mg/ml Tit NLGL00072786-01 Quarcetin Ginkgo Biloba constituent 968-0483-1881 mg/ml Tit NLGL00072786-01 Goldenseal Goldenseal extract 9805-645 mg/ml Tit NLGL00072786-01 Goldenseal Goldenseal extract 9805-645 mg/ml Tit NLGL00072786-01 Goldenseal BOA Provder Goldenseal extract 198-0469 mg/ml Tit NLGL00072786-01 Goldenseal BOA Provder Goldenseal extract 198-0469 mg/ml Tit NLGC00072787-01 Goldenseal BOA Provder Goldenseal extract 197-076 Mg/mg	NCGC00372799-01	Ginkgo Biloba Extract	Ginkgo Biloba	extract	GBE-50-001003	mg/ml	2.73
Nucl-002/2862-01 Natempterol Ginlego Bioba Constituent 142445 mg/m 15 NUCG00027877-04 Querootin Ginlego Bioba constituent 964/9452 mg/m 16 NUCG00027877-04 Querootin Ginlego Bioba constituent 966-9463-188L mg/m 16 NUCG00027876-01 Querootin Giolomeael extract 9806645 mg/m 16 NUCG00027876-01 Goldemeael Goldemeael extract 107-056200 mg/m 16 NUCG00027876-01 Goldemeael Roxt Powder Goldemeael extract 109-0308 mg/m 16 NUCG00027778-04 Goldemeael Roxt Powder Goldemeael extract 194-0308 mg/m 11 NUCG00027778-04 Goldemeael Roxt Powder Goldemeael extract 194-0308 mg/m 11 NUCG0002778-04 Goldemeael Roxt Powder Goldemeael extract 194-0308 mg/m 11 NUCG0002778-01 Grappe Sept Extract Goldemeael extract 194-0407	NCGC00372768-01	Ginkgo Biloba Leaves Powder	Ginkgo Biloba	extract	8K13-2C	mg/ml	10
NCG20037274-01 Outrockin Ginkigo Bibba constituent 96-943-18BL mg/ml 11 NCG20037278-01 Outrockin Ginkigo Bibba constituent 96-9430-05 mg/ml 11 NCG20037278-01 Goldenseal Goldenseal constituent 969-9430-05 mg/ml 11 NCG20037278-01 Goldenseal Goldenseal etract 969-950-01 mg/ml 11 NCG2003728-01 Goldenseal Rot Powder Goldenseal etract 019-0308 mg/ml 11 NCG20037278-01 Goldenseal Rot Powder Goldenseal etract 199-0308 mg/ml 11 NCG20037278-01 Goldenseal Rot Powder Goldenseal etract 925 mg/ml 11 NCG20037278-01 Goldenseal Rot Powder Goldenseal etract 925 mg/ml 11 NCG20037278-01 Goldenseal Estrat Goldenseal etract 925 mg/ml 11 NCG20037278-01 Grape Seed Estrat Grape Seed Estrat 93040 77 11	NCGC00372682-01	Kaempferol	Ginkgo Biloba	constituent	142445	mg/mi	5.5
NGSC0037277-101 Quercetin Ginkgo Bibcha constituent 696-0493-189L, 0405072758-01 Gotdemeal extract 980545 mg/ml 11 NGSC0037288-01 Gotdemeal extract 980545 mg/ml 11 NGSC0037288-01 Gotdemeal extract 980545 mg/ml 11 NGSC0037288-01 Gotdemeal extract HYCA107-128.01 mg/ml 11 NGSC0037286-01 Gotdemeal extract 1347 mg/ml 11 NGSC00372786-01 Gotdemeal Root Powder Gotdemeal extract 1474 mg/ml 11 NGSC00372786-01 Gotdemeal Root Powder Gotdemeal extract 191657 mg/ml 11 NGSC0037278-01 Grape Seed Extract Grape Seed See mg/ml	NCGC00372674-01	Quercetin	Ginkgo Biloba	constituent	049K1532	ma/ml	1(
NGC0037284-01 Quercetin Girkigo Biloba constituent 989-379-05 mg/ml 11 NGC0037278-01 Goldenseal Goldenseal extract 900545 mg/ml 11 NGC0037278-01 Goldenseal Goldenseal extract 170-0020 mg/ml 11 NGC0037278-01 Goldenseal Goldenseal extract 190-006 mg/ml 11 NGG0037278-01 Goldenseal Fortact 814-7 mg/ml 11 NGG0037278-01 Goldenseal Fortact 814-7 mg/ml 11 NGG0037278-01 Goldenseal Fortact 814-7 mg/ml 11 NGG0037278-01 Goldenseal Fortact 815-15 mg/ml 11 NGG0037278-01 Grape Sed Extract Grape Gead extract 201632-00 mg/ml 11 NGG0037278-01 Grape Gead extract 201632-00 mg/ml 16 NGG0037278-01 Grape Gead extract 201632-00 mg/ml 16 <tr< td=""><td>NCGC00372771-01</td><td>Quercetin</td><td>Ginkgo Biloba</td><td>constituent</td><td>969-0483-18BL</td><td>ma/ml</td><td>10</td></tr<>	NCGC00372771-01	Quercetin	Ginkgo Biloba	constituent	969-0483-18BL	ma/ml	10
NGGC007278-01 Goldenesal extract 0906945 mg/ml 11 NGGC007278-01 Goldenesal Goldenesal extract 170-09020 mg/ml 11 NGGC007278-01 Goldenesal extract 190-090 mg/ml 11 NGGC007278-01 Goldenesal extract 109-000 mg/ml 11 NGGC007278-01 Goldenesal extract 1847 mg/ml 11 NGGC007278-01 Goldenesal extract 6025 mg/ml 11 NGGC007278-01 Goldenesal extract 6035-00 mg/ml 11 NGGC007278-01 Grape Beed Extract Grape Seed extract 119H0687 mg/ml 11 NGGC007278-01 Grape Seed Extract Grape Seed Extract Grape Seed Extract 119H0687 mg/ml 11 NGGC007278-01 Grape Seed Extract Grape Seed Extract Grape Seed Extract 100062/047 mg/ml 11 NGGC007278-01 Grape Seed Extract Grape Seed Extract Grape Seed Extract <td< td=""><td>NCGC00372884-01</td><td>Quercetin</td><td>Ginkgo Biloba</td><td>constituent</td><td>969-3790-05</td><td>mg/ml</td><td>10</td></td<>	NCGC00372884-01	Quercetin	Ginkgo Biloba	constituent	969-3790-05	mg/ml	10
NGC0037278-01 Goldenseal extract MYCA107-10.28.01- mg/ml mg/ml mg/ml NGC0037285-01 Goldenseal Foxtact HYCA107-10.28.01- mg/ml mg/ml mg/ml NGC0037285-01 Goldenseal Foxtact 019-0306 mg/ml mg/ml mg/ml NGC0037278-01 Goldenseal Foxtact 8147 mg/ml	NCGC00372758-01	Goldenseal	Goldenseal	extract	9806545	mg/ml	10
NGC0037281-01 Goldenseal extract HYCA107-102.801- mg/ml 11 NGC00372856-01 Goldenseal Root Powder Goldenseal extract 030-0508 mg/ml 101 NGC00372856-01 Goldenseal Root Powder Goldenseal extract 9025 mg/ml 101 NGC00372786-01 Goldenseal Root Powder Goldenseal extract 9025 mg/ml 101 NGC00372786-01 Goldenseal Root Powder Goldenseal extract 9284 mg/ml 101 NGG0037278-01 Grape Seed Extract Grape Seed extract 9204 mg/ml 111 NGG00372778-01 Grape Seed Extract Grape Seed extract 2001082704F mg/ml 111 NGG0037278-01 Gum Guggul Extract Gum Guggul extract 201032902F mg/ml 111 NGG0037278-01 Gum Guggul Extract Gum Guggul extract 6014394 mg/ml 111 NGG0037278-01 Gum Guggul Extract Gum Guggul extract 6014394 mg/ml	NCGC00372789-01	Goldenseal	Goldenseal	extract	007-090200	mg/ml	10
NGGC0037285-01 Goldenseal extract 019-0308 mg/ml 11 NGGC0037285-01 Goldenseal extract 839-0508 mg/ml 11 NGGC0037278-01 Goldenseal extract 8147 mg/ml 11 NGGC0037278-01 Goldenseal extract 8911518 mg/ml 11 NGGC0037278-01 Goldenseal extract 8911518 mg/ml 11 NGGC0037278-01 Grape Seed Extract Grape Seed extract 1930-07 mg/ml 11 NGGC00372778-01 Grape Seed Extract Grape Seed extract 2001082704F mg/ml 11 NGGC00372778-01 Grape Seed Extract Gum Guggul extract 201103202F mg/ml 11 NGGC00372777-01 Gum Guggul Extract Gum Guggul extract 201103202F mg/ml 11 NGGC00372777-01 Gum Guggul Extract Gum Guggul extract 581-560750 mg/ml 11 NGGC00372777-01 Gum Guggul Extract Gum Guggul extract <td>NCGC00372881-01</td> <td>Goldenseal</td> <td>Goldenseal</td> <td>extract</td> <td>HYCA10/7-10.28.01-</td> <td>mg/ml</td> <td>10</td>	NCGC00372881-01	Goldenseal	Goldenseal	extract	HYCA10/7-10.28.01-	mg/ml	10
NGG0037278-01 Goldenseal Root Powder Goldenseal extract 038-0080 mg/ml 11 NGG0037278-01 Goldenseal Root Powder Goldenseal extract 9025 mg/ml 11 NGG0037278-01 Goldenseal Root Powder Goldenseal extract 9925 mg/ml 11 NGG0037278-01 Grape Seed extract 9811518 mg/ml 11 NGG0037278-01 Grape Seed Extract Grape Seed extract 11940687 mM 7.4 NGG0037278-01 Grape Seed Extract Grape Seed extract 2001082704F mg/ml 11 NGG0037278-01 Grape Seed Extract Grape Seed extract 2001082704F mg/ml 11 NGG0037278-01 Gun Gugui Extract Gum G	NCGC00372559-01	Goldenseal Root Powder	Goldenseal	extract	019-0308	mg/ml	10
NG-GU037278-01 Goldenseal Hool Powder Goldenseal extract B147 Imgrin II NGG-C0037278-01 Goldenseal Hool Powder Goldenseal extract B911518 mg/ml 11 NGG-C0037278-01 Goldenseal Hool Powder Goldenseal constluent 119140827 mM 7.4 NGG-C0037278-01 Grape Seed Extract Grape Seed extract B935-JO mg/ml 11 NGG-C0037278-01 Grape Seed Extract Grape Seed extract 2001082704F mg/ml 11 NGG-C0037278-01 Grape Seed Extract (ActiVin GSE-2000-S) Grape Seed extract 2001082704F mg/ml 11 NGG-C0037278-01 Gum Guggul Extract Gum Guggul extract 0717209 mg/ml 11 NGG-C0037278-01 Gum Guggul Extract Gum Guggul extract 0817209 mg/ml 11 NGG-C0037278-01 Gum Guggul Extract Gum Guggul extract 0817209 mg/ml 11 NGG-C0037278-01 Gum Guggul Extract Gum Guggul extr	NCGC00372568-01	Goldenseal Hoot Powder	Goldenseal	extract	038-0508	mg/ml	10
NNCCC00372789-01 Goldenseal root powder Goldenseal catual B911518 mg/ml 11 NCGC00372786-01 Goldenseal root powder Goldenseal extract 9811518 mg/ml 10 NCGC00372787-01 Grape Seed Extract Grape Seed extract 8893-00 mg/ml 10 NCGC0037277-01 Grape Seed Extract Grape Seed extract 20010329027 mg/ml 10 NCGC00372775-01 Grape Seed Extract Grape Seed extract 20010329027 mg/ml 10 NCGC00372787-01 Gum Guggul Extract Gum Guggul extract 001329027 mg/ml 10 NCGC00372787-01 Gum Guggul Extract Gum Guggul extract Galdenseal construct Mirat Mirat Mirat 10 NCGC00372787-01 Gum Guggul Extract Gum Guggul extract Galdenseal mg/ml 10 10 NCGC0037277-01 mg/ml 10 10 NCGC0037276-01 Mirat Mirat 40 10 10 10 1	NCGC00372773-01	Goldenseal Root Powder	Goldenseal	extract	9025	mg/ml	10
NGC00037288-01 Coldenseal Root Powder Goldenseal extract 224 mg/ml 11 NGC0037278-01 Grape Seed Extract Grape Seed extract 8393-JO mg/ml 11 NGC0037275-01 Grape Seed Extract Grape Seed extract UNGSC0037276-01 Grape Seed Extract (ActiVin GSE-2000-S) Grape Seed extract 2001082704-fm g/ml 101 NGC00037276-01 Grape Seed Extract (ActiVin GSE-2000-S) Grape Seed extract 2001082704-fm g/ml 101 NGC00037276-01 Gum Gugul Extract Gum Gugul extract 07172009 mg/ml 101 NGC00037277-01 Gum Gugul Extract Gum Gugul extract 04172009 mg/ml 101 NGC00037277-01 Gum Gugul Extract Gum Gugul extract 64093/H mg/ml 101 NGC00037277-01 Gung Gugul Extract Gum Gugul extract 651177/H mg/ml 101 NGC00037277-01 Gugul Extract Gum Gugul extract 680338 mg/ml 101 NGC00037277-01 Gugul Extract Kava Kava Extract Kava	NCGC00372798-01	Goldenseal root powder	Goldenseal	extract	9811518	ma/ml	10
NGCG0037274-01 Berberine chloride Goldenseal constituent 1190867 mM 7.4.1 NGG000372573-01 Grape Seed Extract Grape Seed extract 8983-JO mg/ml 10 NGG000372778-01 Grape Seed Extract (ActiVin GE=2000.) Grape Seed extract 20010320027 mg/ml 10 NGG00037277-01 Gurn Gugul Extract Gurn G	NCGC00372866-01	Goldenseal Root Powder	Goldenseal	extract	9264	mg/ml	10
NGGC0037267-01 Grape Seed extract Brape Seed extract Brape Seed extract UNGS-010278-01 Grape Seed Extract (ActiVin GSE-2000-) Grape Seed extract 2001082704F mg/ml 110 NGGC0037278-01 Grape Seed Extract (ActiVin GSE-2000-) Grape Seed extract 2001082704F mg/ml 110 NGGC0037278-01 Gum Gugul Extract Gum Gugul Extract Gum Gugul Extract 07172009 mg/ml 101 NGGC0037278-01 Gum Gugul Extract Gum Gugul Extract 04172009 mg/ml 101 NGGC0037278-01 Gum Gugul Extract Gum Gugul Extract Gum Gugul Extract Gum Gugul Extract MGG0037278-0 mg/ml 101 NGGC0037278-01 Gugulpid 2.5% (40 Mesh) Gum Gugul Extract Gum Gugul Extrac	NCGC00372744-01	Berberine chloride	Goldenseal	constituent	119H0687	mM	7.47
NCGC00372759-01 Grape Seed extract UNGS-010201 mg/ml 11 NCGC00372778-01 Grape Seed Extract (ActiVin GSE-2000-S) Grape Seed extract 2001082702F mg/ml 11 NCGC00372778-01 Gum Guggul Extract Gum Guggul extract 2001082709 mg/ml 116 NCGC00372672-01 Gum Guggul Extract Gum Guggul extract 651177/14 mg/ml 116 NCGC00372677-01 Gum Guggul Extract Gum Guggul extract 66049391 mg/ml 116 NCGC00372678-01 Guu Guggul Extract Gum Guggul extract 610707 mg/ml 116 NCGC00372678-01 Guuguljad 2.5% (ranues Gum Guggul extract 680338 mg/ml 116 NCGC00372678-01 Guuguljad 2.5% Granues Gum Guggul extract 680338 mg/ml 116 NCGC00372670-01 Kava Kava Extract Kava Kava extract 682203 mg/ml 116 NCGC00372670-01 Kava Kava Extract Kava Kava extract 90755N/COSM0 </td <td>NCGC00372573-01</td> <td>Grape Seed Extract</td> <td>Grape Seed</td> <td>extract</td> <td>8393-JO</td> <td>mg/ml</td> <td>10</td>	NCGC00372573-01	Grape Seed Extract	Grape Seed	extract	8393-JO	mg/ml	10
NGG C00372778-01 Grape Seed extract 2001082704F mg/ml ft NGG C00372787-01 Grape Seed Extract (Activin GSE-2000-S) Grape Seed extract 2001082704F mg/ml ft NGG C00372677-01 Gum Guggul Extract GG0037277-01 Gum Guggul Extract Gum Guggul extract GG0493/H mg/ml ft NGG C0037278-01 Gum Guggul Extract Gum Guggul extract GG0493/H mg/ml ft NGG C0037278-01 Guuguljel 2.5% (40 Mesh) Gum Guggul extract G80338 mg/ml ft NGG C00372678-01 Guguljel 2.5% (40 Mesh) Gum Guggul extract G80338 mg/ml ft NGG C00372678-01 Guguljel 2.5% (40 Mesh) Gum Guggul extract G80338 mg/ml ft NGG C00372679-01 Kava Kava Extract Kava Kava extract G80338 mg/ml ft NGG C00372679-01 Kava Kava Extract Kava Kava extract G807550. mg/ml ft	NCGC00372763-01	Grape Seed Extract	Grape Seed	extract	UNGS-010201	mg/ml	10
NG3C0037278-01 Grape Seed Extract (Activin GSE-2000-S) Grape Seed extract 2001032902- mg/ml 11 NGGC0037277-01 Gum Guggul Extract Gum Guggul extract 04172009 mg/ml 11 NGGC0037277-01 Gum Guggul Extract Gum Guggul extract 04172009 mg/ml 11 NGGC0037277-01 Gum Guggul Extract Gum Guggul extract G40493/H mg/ml 11 NGGC0037278-01 Gum Guggul Extract Gum Guggul extract G40493/H mg/ml 11 NGGC00372878-01 Gugulipid 2.5% (40 Mesh) Gum Guggul extract G510777 mg/ml 11 NGGC00372878-01 Kayu Kava Extract Kava Kava extract G8038 mg/ml 11 NGGC00372879-01 Kava Kava Extract Kava Kava extract G8038 mg/ml 11 NGGC00372879-01 Kava Kava Extract Kava Kava extract G8038 mg/ml 11 NGGC0037278-01 Kava Kava Extract Kava Kava extract S9075	NCGC00372778-01	Grape Seed Extract (ActiVin GSE-2000)	Grape Seed	extract	2001082704F	mg/ml	10
NGGC003/26/2-01 Gum Guggul Extract Gum Guggul extract G // 72009 mg/mi Tit NGGC0037277-01 Gum Guggul Extract Gum Guggul extract G // 72009 mg/mi (11) NGGC0037277-01 Gum Guggul Extract Gum Guggul extract G // 72009 mg/mi (11) NGGC003727540-01 Gun Guggul Extract Gum Guggul extract SBL-S050750 mg/mi (11) NGGC00372566-01 Gugulipid 2.5% (40 Mesh) Gum Guggul extract G 107077 mg/mi (11) NGGC003727567-01 Gugulipid 2.5% Granules Gum Guggul extract G 80338 mg/mi (11) NGGC00372767-01 Kava Kava Extract Kava Kava extract 9822399-C mg/mi (11) NGGC00372776-01 Kava Kava Extract Kava Kava extract 98203 mg/mi (11) NGGC00372776-01 Kava Kava Extract Kava Kava extract 99075DK/COSMO mg/mi (11) NGGC0037276-01 Kava Kava Extract Kava Kava extrac	NCGC00372785-01	Grape Seed Extract (ActiVin GSE-2000-S)	Grape Seed	extract	2001032902F	mg/ml	10
NGCC0037277-01 Gum Guggui Extract Gum Guggui Extract Gan Gugai Extract Gan Gugai Extract Gan Gugai Extract Gan Gugai Extract Gan Gan Gan Gugai Extract	NCGC00372672-01	Gum Guggul Extract	Gum Guggul	extract	0/1/2009	mg/ml	10
NGC 000372796-01 Gum Guggu Extract Gum Guggu Extract Gom 2003 Minim Minim Minim NGG 000372874-01 Gum Guggu Extract Gum Guggu extract Ge0493/H mg/min (fi) NGG 000372874-01 Gun Guggu Extract Gum Guggu extract G10707 mg/min (fi) NGG 000372875-01 Gugulipid 2.5% (d) Mesh) Gum Guggul extract G80338 mg/min (fi) NGG 000372876-01 Kava Kava Extract Kava Kava extract G80338 mg/min (fi) NGG 000372876-01 Kava Kava Extract Kava Kava extract 680230 mg/min (fi) NGG 000372879-01 Kava Kava Extract Kava Kava extract 562 mg/min (fi) NGG 000372879-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/min (fi) NGG 000372879-01 Kava Kava Extract Kava Kava extract 9007SDK/COSMO mg/min (fi) NGG 000372879-01 Mik Thistle Extract Mik Thistle	NCGC00372677-01	Gum Guggui Extract	Gum Guggul	extract	04172000	mg/ml	10
NCGC00372874-01 Gum Guggul Extract 10% Gum Guggul extract SBL-S050750 mg/mi 10 NCGC00372558-01 Gugulipid 2.5% (40 Mesh) Gum Guggul extract SBL-S050750 mg/mi 10 NCGC00372558-01 Gugulipid 2.5% (ranules) Gum Guggul extract G10707 mg/mi 10 NCGC0037275-01 Gugulipid SCF Extract Gum Guggul extract G80338 mg/mi 10 NCGC00372767-01 Kava Kava Extract Kava Kava extract 082203 mg/mi 11 NCGC00372767-01 Kava Kava Extract Kava Kava extract 98203 mg/mi 10 NCGC0037276-01 Kava Kava Extract Kava Kava extract 9977SDK/COSMO mg/mi 11 NCGC0037276-01 Kava Kava Extract Kava Kava extract 1228 mg/mi 11 NCGC0037276-01 Mik Thistle Extract Milk Thistle extract 1288 mg/mi 11 NCGC0037278-01 Mik Thistle Extract Milk Thistle extract 1288<	NCGC00372780-01	Gum Guggul Extract	Gum Guggul	extract	G60493/H	mg/ml	10
NICGC00372558-01 Gugulipid 2.5% (40 Mesh) Gum Guggul extract G 100707 mg/ml 110 NICGC00372563-01 Gugulipid 2.5% (40 Mesh) Gum Guggul extract G 107771 mg/ml 101 NICGC00372572-01 Gugulipid SCF Extract Gum Guggul extract G 80338 mg/ml 101 NICGC00372576-01 Kava Kava Extract Kava Kava extract 2838-22599-C mg/ml 111 NICGC00372762-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 101 NICGC0037279-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 101 NICGC0037279-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 101 NICGC0037279-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 101 NIGC0037278-01 Milk Thistle Extract Milk Thistle extract 12238 mg/ml 101 NIGC0037278-01 Milk Thistle Extract Milk Thistle	NCGC00372874-01	Gum Guggul Extract 10%	Gum Guggul	extract	SBL-S050750	ma/ml	10
NGGC00372583-01 Gugulipid 2.5% Granules Gum Guggul extract G51177/H mg/ml 11 NGGC00372772-01 Gugulipid SCF Extract Gum Guggul extract G80338 mg/ml 10 NGGC00372776-01 Kava Kava Extract Kava Kava extract 2883-22599-C mg/ml 10 NGGC00372876-01 Kava Kava Extract Kava Kava extract 582 mg/ml 10 NGGC0037278-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 11 NGGC0037278-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 11 NGGC0037278-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 11 NGGC0037278-01 Kik Thistle Extract Kava Kava extract 12238 mg/ml 11 NGGC0037278-01 Mik Thistle Extract Milk Thistle extract 18 is mg/ml 11 NGGC0037278-01 Mik Thistle Extract Milk Thistle extract 18 is 0	NCGC00372558-01	Gugulipid 2.5% (40 Mesh)	Gum Guggul	extract	G100707	mg/ml	10
NCGC00372772-01 Gugulipid SOF Extract Gum Guggul extract G80338 mg/ml 11 NCGC00372767-01 Kava Kava Extract Kava Kava extract 2838-2259-C mg/ml 11 NCGC00372767-01 Kava Kava Extract Kava Kava extract 082203 mg/ml 11 NCGC00372767-01 Kava Kava Extract Kava Kava extract 0977SDK/COSMO mg/ml 11 NCGC0037279-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 11 NCGC0037279-01 Kava Kava Extract Kava Kava extract 19077SDK/COSMO mg/ml 11 NCGC0037279-01 Kava Kava Extract Kava Kava extract 12238 mg/ml 11 NCGC0037276-01 Milk Thistle Extract Milk Thistle extract 118 is mg/ml 11 NCGC0037278-01-01 Milk Thistle Extract Milk Thistle extract 118 is mg/ml 11 NCGC0037278-01-01 Milk Thistle Extract Milk Thistle extract	NCGC00372563-01	Gugulipid 2.5% Granules	Gum Guggul	extract	G51177/H	mg/ml	10
NCGC00372676-01 Kava Kava Extract Kava Kava extract 0283-2259-0 mg/ml 111 NCGC00372762-01 Kava Kava Extract Kava Kava extract 08203 mg/ml 111 NCGC00372762-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 110 NCGC0037279-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 110 NCGC0037279-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 110 NCGC0037279-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 110 NCGC00372870-01 Milk Thistle Seed Milk Thistle extract 12238 mg/ml 110 NCGC00372876-01 Milk Thistle Extract Milk Thistle extract MCG0037278-01 Milk Thistle Extract Milk Thistle extract 48081999 mg/ml 110 NCGC00372876-01 Milk Thistle Extract Milk Thistle constituent 04400845 mM 9.77	NCGC00372772-01	Gugulipid SCF Extract	Gum Guggul	extract	G80338	mg/ml	10
NGG C00372897-01 Kava Kava Extract Kava Kava extract 082203 mg/ml 111 NGG C0037278-01 Kava Kava Extract Kava Kava extract 562 mg/ml 111 NGG C0037278-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 111 NGG C0037278-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 111 NGG C0037278-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml 111 NGG C0037278-01 Mik Thistle Extract Kava Kava extract 12238 mg/ml 111 NGG C0037278-01 Mik Thistle Extract Milk Thistle extract 118 is mg/ml 111 NGG C0037278-01 Mik Thistle Extract Milk Thistle extract B12079FXLH mg/ml 111 NGG C0037278-01 Mik Thistle Extract Milk Thistle extract B400845 mM 97.7 NGG C0037286-01 Silybin Milk Thistle constituent 04440	NCGC00372676-01	Kava Kava Extract	Kava Kava	extract	2638-22599-C	mg/ml	10
NGGC00372782-01 Kava Kava Extract Kava Kava extract 962 mg/ml ft NGGC0037279-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml ft NGGC0037279-01 Kava Kava Extract Kava Kava extract 9077SDK/COSMO mg/ml ft NGGC0037279-01 Kava Kava Extract Kava Kava extract 930056 mg/ml ft NGGC00372776-01 Milk Ava Extract Kava Kava extract 12238 mg/ml ft NGGC00372776-01 Milk Thistle Extract Milk Thistle extract 118 is mg/ml ft NGGC00372781-01 Milk Thistle Extract Milk Thistle extract 18 is mg/ml ft NGGC0037278-01 Milk Thistle Extract Milk Thistle extract 18 is mg/ml ft NGGC0037278-01 Milk Thistle Extract Milk Thistle constituent 0440645 mM 9.75 NGGC0037278-01 Silybin Milk Thistle constituent 0440645 <t< td=""><td>NCGC00372687-01</td><td>Kava Kava Extract</td><td>Kava Kava</td><td>extract</td><td>082203</td><td>mg/ml</td><td>10</td></t<>	NCGC00372687-01	Kava Kava Extract	Kava Kava	extract	082203	mg/ml	10
NGGC0037279-01 Rava Rava Extract Nava Rava extract 907/SD/COSMO mg/mi It NGGC00372870-01 Kava Kava Extract Kava Kava extract 907/SD/COSMO mg/mi 11 NGGC00372870-01 Kava Kava Extract Kava Kava extract 907/SD/COSMO mg/mi 11 NGGC00372870-01 Milk Thisle Sead Milk Thisle extract 12288 mg/mi 11 NGGC00372876-01 Milk Thisle Extract Milk Thisle extract M-069902 mg/mi 11 NGGC00372876-01 Milk Thisle Extract Milk Thisle extract MTSXP 895 mg/mi 11 NGGC00372876-01 Milk Thisle Extract Milk Thisle extract 488081999 mg/mi 11 NGGC00372876-01 Milk Thisle Extract Milk Thisle consituent 044K0845 mM 9.72 NGGC00372876-01 Milk Thisle Extract Milk Thisle consituent 044K0845 mM 9.72 NGGC00372876-01 Silybin Milk Thisle consituent 0	NCGC00372762-01	Kava Kava Extract	Kava Kava	extract	562	mg/ml	10
NGG C00372879-01 Kava Kava Extract Kava Kava extract 90/75/05/05/06 mg/mi ft NGG C0037278-01 Kava Kava Extract Kava Kava extract 90/75/05/05/06 mg/mi ft NGG C0037278-01 Mik Thistle Extract Mik Thistle extract 12238 mg/mi ft NGG C0037278-01 Mik Thistle Extract Milk Thistle extract 12238 mg/mi ft NGG C0037278-01 Mik Thistle Extract Milk Thistle extract 118 is mg/mi ft NGG C0037278-01 Mik Thistle Extract Milk Thistle extract B120799KLH mg/mi ft NGG C0037278-01 Mik Thistle Extract Milk Thistle extract B20799KLH mg/mi ft NGG C0037286-01 Mik Thistle Extract Milk Thistle constituent 044K0845 mM 10 NGG C00372865-01 Olive oil Olive oil oil L1444H1000 mg/mi ft NGG C00372865-01 Olive oil Olive oil oil L1444H1000 <td>NCGC00372779-01</td> <td>Kava Kava Extract</td> <td>Kava Kava</td> <td>extract</td> <td>9077SDK/COSMO</td> <td>mg/mi</td> <td>10</td>	NCGC00372779-01	Kava Kava Extract	Kava Kava	extract	9077SDK/COSMO	mg/mi	10
Instruction Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	NCGC00372879-01	Kava Kava Extract	Kava Kava	extract	930056	mg/ml	10
NCGC00372671-01 Milk Thistle Extract Milk Thistle extract M-069902 mg/mil 10 NCGC00372680-01 Milk Thistle Extract Milk Thistle extract M18 Page mg/mil 10 NCGC00372670-10 Milk Thistle Extract Milk Thistle extract MTSXP 895 mg/mil 10 NCGC00372767-01 Milk Thistle Extract Milk Thistle extract MTSXP 895 mg/mil 10 NCGC00372767-01 Milk Thistle Extract Milk Thistle extract 48081999 mg/mil 10 NCGC00372787-01 Silybin Milk Thistle constituent 04400845 mM 9.72 NCGC00372869-01 Silybin Milk Thistle constituent 04400845 mM 9.72 NCGC00372869-01 Dive oil Olive oil oil L1444RH1000 mg/mil 10 NCGC00372875-01 Pine Bark Extract Pine Bark extract UNPB-105208 mg/mil 10 NCGC00372876-01 Pine Bark Extract (Pycnogenol) Pine Bark extract	NCGC00372776-01	Milk Thistle Seed	Milk Thistle	extract	12238	mg/ml	10
NGCC00372880-01 Milk Thistle Extract Milk Thistle extract 118 is mg/ml 11 NGCG00372786-01 Milk Thistle Extract Milk Thistle extract MTSXP 895 mg/ml 10 NGGC00372786-01 Milk Thistle Extract Milk Thistle extract B120799KLH mg/ml 10 NGGC00372786-01 Milk Thistle Extract Milk Thistle extract B120799KLH mg/ml 10 NGGC00372878-01 Milk Thistle Extract Milk Thistle extract 480081999 mg/ml 10 NGGC0037288-01 Silybin Milk Thistle constituent 044K0845 mM 97.7 NGGC00372886-01 Silybin Milk Thistle constituent 044K0845 mM 10 NGGC00372870-01 Pine Bark Extract Pine Bark extract B420 mg/ml 10 NGGC00372869-01 Resveratrol Pine Bark extract B420 mg/ml 10 NGGC00372870-01 Pine Bark Extract (Pycnogenol) Pine Bark extract B420	NCGC00372671-01	Milk Thistle Extract	Milk Thistle	extract	M-069902	ma/ml	10
NGGC00372781-01 Milk Thistle Extract Milk Thistle extract MTSXP 895 mg/ml 11 NGGC0037278-01 Milk Thistle Extract Milk Thistle extract B120799KLH mg/ml 11 NGGC0037278-01 Milk Thistle Extract Milk Thistle extract 48081199 mg/ml 10 NGGC00372876-01 Milk Thistle Extract Milk Thistle constituent 044K0845 mM 9.77 NGGC0037288-01 Silybin Milk Thistle constituent 044K0845 mM 9.77 NGGC0037288-01 Silybin Milk Thistle constituent 044K0845 mM 9.77 NGGC0037285-01 Dilve oll Ollve oll oll L1444FH1000 mg/ml 10 NGGC0037287-01 Pine Bark Extract Pine Bark extract UNPE-10520B mg/ml 11 NGGC00372876-01 Resveratrol Resveratrol constituent 18080-719 mg/ml 10 NGGC00372869-01 Resveratrol Resveratrol constituent 18080-719	NCGC00372680-01	Milk Thistle Extract	Milk Thistle	extract	118 is	mg/ml	10
NGGC0037276-01 Milk Thistle Extract Milk Thistle extract B120799KLH mg/ml 11 NGGC0037276-01 Milk Thistle Extract Milk Thistle constituent 044K0845 mM 9.73 NGGC0037276-01 Silybin Milk Thistle constituent 044K0845 mM 9.73 NGGC0037278-01 Silybin Milk Thistle constituent 08212KQ mg/ml 11 NGGC00372868-01 Silybin Milk Thistle constituent 08212KQ mg/ml 11 NGGC00372868-01 Silybin Milk Thistle constituent 08212KQ mg/ml 11 NGGC00372868-01 Dive oil oil L1444RH1000 mg/ml 11 NGGC0037267-01 Pine Bark Extract (Pycnogenoil) Pine Bark extract B420 mg/ml 11 NGGC00372678-01 Resveratrol Resveratrol constituent 18080-719 mg/ml 11 NGGC00372678-01 Resveratrol Resveratrol constituent 18080-719 mg/ml 11	NCGC00372781-01	Milk Thistle Extract	Milk Thistle	extract	MTSXP 895	mg/ml	10
NGGC00372876-01 Milk Thistle Extract Milk Thistle extract 488081999 mg/ml 11 NGGC00372863-01 Silybin Milk Thistle constituent 044K0845 mM 9.77 NGGC00372876-01 Silybin Milk Thistle constituent 044K0845 mM 11 NGGC00372886-01 Silybin Milk Thistle constituent 044K0845 mM 11 NGGC00372886-01 Olive oil Olive oil Olive oil Cil 444RH1000 mg/ml 11 NGGC00372570-01 Pine Bark Extract Pine Bark extract B420 mg/ml 11 NGGC00372570-01 Pine Bark Extract (Pycnogenoi) Pine Bark extract B420 mg/ml 11 NGGC00372560-01 Resveratrol Resveratrol constituent 18090-719 mg/ml 11 NGGC00372560-01 Resveratrol Resveratrol constituent 18060-719 mg/ml 11 NGGC00372578-01 Safflower oil Safflower oil oil KEA82 mg/ml	NCGC00372796-01	Milk Thistle Extract	Milk Thistle	extract	B120799KLH	mg/ml	10
NICIG C0037285-01 Silyobin Milk Thistle constituent 044K0845 mM 9.77 NICIG C0037287-01 Silybin Milk Thistle constituent 044K0845 mg/ml 11 NICIG C00372886-01 Silybin Milk Thistle constituent 044K0845 mM 11 NICIG C00372886-01 Silybin Milk Thistle constituent 044K0845 mM 11 NICIG C00372850-01 Pine Bark Extract Pine Bark extract UNPE-10520B mg/ml 11 NICIG C00372670-01 Pine Bark Extract (Pycnogenol) Pine Bark extract B/420 mg/ml 11 NICIG C00372766-01 Resveratrol Resveratrol constituent 18080-719 mg/ml 11 NICIG C00372766-01 Resveratrol Resveratrol constituent 18040 mg/ml 11 NICIG C00372767-01 Resveratrol Resveratrol constituent 186A8 mg/ml 11 NICIG C00372787-01 Resveratrol Safflower oil oil MKBB7664	NCGC00372876-01	Milk Thistle Extract	Milk Thistle	extract	488081999	mg/ml	10
NUCS-CUO37:219-01 singloin Milk TINSUE Constituent 08212KQ mg/ml 111 NCGC00372869-01 Silybin Milk TINSUE constituent 044K0845 mM 111 NCGC00372869-01 Dive oil oil L1444RH1000 mg/ml 111 NCGC00372875-01 Pine Bark Extract Pine Bark extract UNPB-10520B mg/ml 111 NCGC00372876-01 Pine Bark Extract (Pycnogenol) Pine Bark extract B420 mg/ml 111 NCGC00372876-01 Resveratrol constituent 18090-719 mg/ml 111 NCGC00372876-01 Resveratrol constituent 1804D-719 mg/ml 111 NCGC00372876-01 Saffloweroil oil MKB87664 <	NCGC00372683-01	Silybin	Milk Thistle	constituent	044K0845	mM	9.75
Investor Construction	NCGC00372996_01	Silybin	Milk Thistle	constituent	044K0845	mg/mi	10
NGCG00372870-01 Pine Bark Extract Pine Bark extract UIVE ILTMMT11000 mg/ml ftf NGCG00372870-01 Pine Bark Extract Pine Bark extract UIVE Mg/ml ftf NGCG0037257-01 Pine Bark Extract (Pycnogenol) Pine Bark extract UIVE Mg/ml ftf NGCG0037257-01 Pine Bark Extract (Pycnogenol) Pine Bark extract UIVE Mg/ml ftf NGCG00372569-01 Resveratrol Constituent 18090-719 mg/ml ftf NGCG00372678-01 Resveratrol Resveratrol constituent 254.AD mg/ml ftf NGCG00372678-01 Safflower oil Safflower oil oil SC-000486 mg/ml ftf NGCG00372767-01 Turmeric Turmeric extract 90H73 mg/ml ftf NGGC00372877-01 Turmeric Turmeric extract 90H73 mg/ml ftf NGGC00372877-01 Turmeric cleo resin Turmeric extract 4006-4 mg/ml	NCGC00372685-01	Olive oil	Olive oil	oil	L 1444RH1000	ma/ml	10
Instruction Data State Diff of the State Diff o	NCGC00372670-01	Pine Bark Extract	Pine Bark	extract	UNPB-10520B	mg/ml	10
NCGC00372669-01 Resveratrol Resverator Constituent 16080-719 mg/mi 11 NCGC00372766-01 Resveratrol Resveratrol constituent 16080-719 mg/mi 11 NCGC00372786-01 Resveratrol Resveratrol constituent 156AB mg/mi 11 NCGC0037278-01 Safflower oil Safflower oil oil SC-000486 mg/mi 11 NCGC0037278-01 Safflower oil Safflower oil oil MKBB7664 mg/mi 11 NCGC00372797-01 Turmeric Turmeric extract TUP/405B mg/mi 11 NCGC00372797-01 Turmeric Turmeric extract 90H735 mg/mi 11 NCGC00372797-01 Turmeric Turmeric extract 4006-4 mg/mi 17 NCGC00372782-01 Turmeric coler tesin Turmeric extract 4006-4 mg/mi 17 NCGC00372782-01 Turmeric coler tesin Turmeric extract 4006-6.4 mg/mi 17 <td>NCGC00372757-01</td> <td>Pine Bark Extract (Pycnogenol)</td> <td>Pine Bark</td> <td>extract</td> <td>B/420</td> <td>ma/ml</td> <td>10</td>	NCGC00372757-01	Pine Bark Extract (Pycnogenol)	Pine Bark	extract	B/420	ma/ml	10
NCGC00372786-01 Resveratrol Constituent 231AD mg/ml MC NCGC0037286-01 Resveratrol Resveratrol constituent 231AD mg/ml 101 NCGC0037286-01 Resveratrol Resveratrol constituent 156AB mg/ml 101 NCGC0037278-01 Safflower oil oil SC-000486 mg/ml 111 NCGC00372751-01 Safflower oil oil MKB87664 mg/ml 110 NCGC00372787-01 Turmeric Turmeric extract 90H73 mg/ml 111 NCGC00372787-01 Turmeric Turmeric extract 46006-4 mg/ml 112 NCGC00372782-01 Turmeric cleo resin Turmeric constituent 45006-4 mg/ml 114	NCGC00372669-01	Resveratrol	Resveratrol	constituent	18090-719	mg/ml	10
NCGC00372869-01 Resveratrol constituent 156AB mg/ml 110 NCGC0037278-01 Safflower oil Safflower oil oil SC-000486 mg/ml 110 NCGC0037278-01 Safflower oil Safflower oil oil MKB7684 mg/ml 110 NCGC0037278-01 Turmeric Turmeric extract 10H78684 mg/ml 111 NCGC00372787-01 Turmeric Turmeric extract 90H73 mg/ml 110 NCGC00372787-01 Turmeric Turmeric extract 4006-4 mg/ml 72 NCGC00372782-01 Turmeric clearesin Turmeric extract 46006-4 mg/ml 110 NCGC00372782-01 Turmeric clearesin Turmeric extract 46006-4 mg/ml 72	NCGC00372786-01	Resveratrol	Resveratrol	constituent	231AD	mg/ml	10
NCGC00372678-01 Safflower oil Safflower oil oil SC-000486 mg/ml 10 NCGC00372787-01 Safflower oil Safflower oil oil MKBB7664 mg/ml 10 NCGC00372787-01 Turmeric Turmeric extract TUP/4058 mg/ml 10 NCGC00372872-01 Turmeric Turmeric extract 90H73 mg/ml 10 NCGC00372877-01 Turmeric Turmeric extract 46006-4 mg/ml 7.4 NCGC00372875-01 Turmeric celo resin Turmeric extract 2558-A mg/ml 10 NCGC0037285-01 Turmeric Turmeric extract 46006-4 mg/ml 7.4	NCGC00372869-01	Resveratrol	Resveratrol	constituent	156AB	mg/ml	10
NGGC00372791-01 Safflower oil oil MKBB7664 mg/ml 110 NGGC00372797-01 Turmeric Turmeric extract TUP/405B mg/ml 101 NGGC003727872-01 Turmeric Turmeric extract 90H73 mg/ml 110 NGGC00372872-01 Turmeric Turmeric extract 90H73 mg/ml 110 NGGC00372872-01 Turmeric Turmeric extract 46006-4 mg/ml 7.4 NGGC00372842-01 Turmeric celor resin Turmeric extract 2558-A mg/ml 110 NGGC0037284-01 Turmeric celor resin Turmeric extract 46006-4 mg/ml 110	NCGC00372678-01	Safflower oil	Safflower oil	oil	SC-000486	mg/ml	10
NCGC00372797-01 Turmeric turmeric extract TUP/405B mg/ml 111 NCGC00372877-01 Turmeric Turmeric extract 90H73 mg/ml 110 NCGC00372877-01 Turmeric Turmeric extract 4006-4 mg/ml 17.4 NCGC00372782-01 Turmeric cleo resin Turmeric extract 4006-4 mg/ml 11.4 NCGC00372782-01 Turmeric cleo resin Turmeric extract 4006-4 mg/ml 11.4 NCGC00372845-01 Curumin Turmeric extract 4006-4 mg/ml 11.4	NCGC00372761-01	Safflower oil	Safflower oil	oil	MKBB7664	mg/ml	10
NUG200372872-01 Turmeric Turmeric extract 90H73 mg/ml 11 NCG200372877-01 Turmeric Turmeric extract 46006-4 mg/ml 7.4 NCG200372879-01 Turmeric lolo resin Turmeric extract 2558-A mg/ml 10 NCG200372879-01 Turmeric lolo resin Turmeric constituent 46006-4 mf/ml 7.4	NCGC00372797-01	Turmeric	Turmeric	extract	TUP/405B	mg/ml	10
NCGC00072779-01 Turmeric turmeric 1urmeric extract 45006-4 mg/ml 7.7. NCGC00072792-01 Turmeric oleo resin Turmeric extract 2558-A mg/ml 10 NCGC00072454-01 Curcumin Turmeric constituent 46006-4 mM 7.7.	NCGC00372872-01	Turmeric	I urmeric	extract	90H73	mg/ml	10
NGG0007272201 rumento deviresini rumento exititadi 2306-A mig/mi 10 NGG000728285-01 Curcumin Turmeric constituent 4006-4 mM 774	NCGC00372877-01		Turmeric	extract	40000-4 2558-A	mg/mi	7.4
	NCGC00372845-01	Curcumin	Turmeric	constituent	46006-4	mg/mi	74

Supplemental Figures



Supplemental Figure 1: Assessment of intra/inter-botanical supplement activity trends. Comparison of botanical/dietary supplements (those with \geq 3 different test lots) by Pairwise Spearman rank correlations using responses (wAUC) in all assay readouts. Plots are labeled by botanical group (Annatto, Black Walnut Extract, Citral, Milk Thistle Extract, and grape seed extract) followed by four numbers indicating number of lots assessed/average number of active assays across lots/minimum activity by single lot/maximum activity by a single lot. The distribution of the thick line across the x-axis represents the degree of similarity within a group. The degree of overlap between the thick line and the thin lines represents the uniqueness of the group relative to other tested botanical/dietary supplements.



Supplemental Figure 2: Box-plots summarizing relative point of departures (POD) data in the bottom fourteen ranked assays (based on F-value) across tested botanical groups. Note: Two assays are unable to be plotted due to observed inactivity in all tested botanical groups.



Supplemental Figure 3: Box-plots summarizing relative point of departures (POD) data in the bottom fourteen ranked assays (based on F-ratio) across select botanical groups and associated marker constituents. Note: Two assays are unable to be plotted due to observed inactivity in all tested botanical/constituent groups.



Supplemental Figure 4: tSNE clustering summary of Tox21 library chemical and botanical/dietary extracts based on the responses (wAUC) in all assay readouts. The most active test lot within each botanical group is labeled.

Supplemental Citations

- Fox, J. T. *et al.* High-throughput genotoxicity assay identifies antioxidants as inducers of DNA damage response and cell death. *Proc. Natl. Acad. Sci.* 109, 5423–5428 (2012).
- Chen, S. *et al.* Cell-based high-throughput screening for aromatase inhibitors in the Tox21 10K library. *Toxicol. Sci.* 147, 446–457 (2015).
- 3. Hsieh, J. H. *et al.* Real-time cell toxicity profiling of Tox21 10K compounds reveals cytotoxicity dependent toxicity pathway linkage. *PLoS One* **12**, 1–19 (2017).
- 4. Sakamuru, S. *et al.* Application of a homogenous membrane potential assay to assess mitochondrial function. *Physiol. Genomics* **44**, 495–503 (2012).
- Huang, R. A Quantitative High-Throughput Screening Data Analysis Pipeline for Activity Profiling. in *High-Throughput Screening Assays in Toxicology* (ed. Xia, H. Z. and M.) 1473 (Humana Press, 2016).
- 6. Wang, Y. and H. R. Correction of Microplate Data from High-Throughput Screening. In: High-Throughput Screening Assays in Toxicology. in *Methods in Molecular Biology* (ed. H. Zhu and M. Xia) 123–134 (Springer, 2016).
- Wang, Y., Jadhav, A., Southal, N., Huang, R. & Nguyen, D.-T. A grid algorithm for high throughput fitting of dose-response curve data. *Curr. Chem. Genomics* 4, 57–66 (2010).
- Inglese, J. *et al.* Quantitative high-throughput screening: A titration-based approach that efficiently identifies biological activities in large chemical libraries. *Proc. Natl. Acad. Sci.* 103, 11473–11478 (2006).
- Hsieh, J.-H. Accounting Artifacts in High-Throughput Toxicity Assays. In: High-Throughput Screening Assays in Toxicology. in *Methods in Molecular Biology* (ed. Xia,

M. and Zhu, H.) 143-152 (Springer, 2016).

 Sedykh, A. CurveP Method for Rendering High-Throughput Screening Dose-Response Data into Digital Fingerprints. In: High-Throughput Screening Assays in Toxicology. in *Methods in Molecular Biology* (ed. Zhu H. and Xia M.) 135–141 (2016).