



Exhibit 4

# NATIONAL HIV/AIDS/STI/TB COUNCIL

4<sup>th</sup> April 2007

Dr. Ludwick Sondashi  
3<sup>rd</sup> Floor Design House  
P O Box  
LUSAKA

Dear Sir

**RE: PERFORMANCE OF SONDASHI 2000 HERBAL  
FORMULATION IN CLINICAL STUDY 17<sup>TH</sup> NOVEMBER 2005  
TO 25<sup>TH</sup> APRIL 2006**

You are aware that your product was subjected to “An Open observational and Exploratory Clinical Study”.

The objective was to evaluate Safety and Efficacy as well as Physical and Clinical status of HIV positive clients. The product was evaluated for any spicing with commonly used antiretrovirals.

Your product met the following objectives as follows:

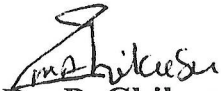
- a. Safety - there was no toxicity, which can be attributed to the product. See attachment
- b. Spicing – there were no commonly used antiretrovirals noted in the product.
- c. Efficacy – The product showed that six out of ten (6/10) represented by Codes 01, 02, 03, 05, 07 and 14 increased in CD4 cell count correspondent to viral load reduction. See attachment.
- d. Clinical (Physical) status showed:
  - Increase in body weight
  - Increase in appetite

- No opportunistic infections such as meningitis, TB, STIs, and diarrhoea.

From this it is important that further studies be made for a large group and longer period and I hope you will enter into discussion with the government to further this work.

Thank you for your courage to subject your formulation to scientific assessment.

Yours faithfully



**Dr. P. Chikusu**  
**Principal Investigator**

## SAFETY DATA

Safety data shows the following: Kidney function tests, Liver function tests and Blood Biochemistry.

Below are the tables for Safety data for each Sondashi formulation participant.

CODE NO.01	SONDASHI							
FORMULATION	SONDASHI							
RESULTS	BASE	1 MONTH	2 MONTH	3 MONTHS	4 MONTHS	5 MONTHS	6 MONTHS	REF RANGE
<b>Kidney Function Tests</b>								
Urea	2.2mmol/L	2.0mmol/L	2.3mmol/L	1.9mmol/L	2.1mmol/L	2.8mmol/L	1.7mmol/L	2.1 - 7.1
Creatinine	58 umol/L	57mmol/L	38mmol/L	62mmol/L	63mmol/L	58mmol/L	59mmol/L	53 - 97
<b>Liver Function</b>								
ALT (GPT)	15 lu/L	7lu/L7	16lu/L	13 lu/L	15 lu/L	15 lu/L	15 lu/L	7.0 - 35
AST (GOT)	31 lu/L	26lu/L	31lu/L	31lu/L	33lu/L	29lu/L	30 lu/L	13 -35
<b>Blood Chemistry (Full Blood count).</b>								
Erythrocyte count	4.05 x10/L	4.38 x 10/L	4.27 x 10/L	3.95 x 10/L	4.34 x 10/L	4.24 x 10/L	4.05 x 10/L	3.8 - 5.5
Haemoglobin (HB)	9.2g /dL	9.5g/dl	9.1g/dl	9.6g/dL	9.1g/dl	8.7g/dl	8.6g/dl	12.4 - 16.7
Platelets	314 X 10/L	506 x 10/L	494 x 10/L	468 x 10/L	478 x 10/L	434 x 10/L	328 x 10/L	150 - 450
Leucocytes Count	4.70 x 10 /L	4.00 x 10/L	4.60 x 10/L	4.60 x 10/L	4.10 x 10/L	5.40 x 10/L	5.00 x 10/L	4.0 - 12.0
Lymphocytes	2.29 x 10/L	1.58 x 10/L	1.79 x 10/L	1.97 x 10/L	1.69 x 10/L	2.22 x 10/L	2.21 x 10/L	1.0 - 4.0

CODE NO. 02								
FORMULATION		SONDASHI						
RESULTS	BASE	1 MONTH	2 MONTH	3 MONTHS	4 MONTHS	5 MONTHS	6 MONTHS	REF RANGE
<b>Kidney Function Tests</b>								
Urea	3.2mmol/L	2.4mmol/L	1.2mmol/L	1.5mmol/L	2.6mmol/L	2.4mmol/L	2.0mmol/L	2.1 - 7.1
Creatinine	61umol/L	66mmol/L	67mmol/L	64mmol/L	61umol/L	61mmol/L	78mmol/L	53 - 97
<b>Liver Function</b>								
ALT ( GPT)	16 lu/L	9 lu/L	13 lu/L	14 lu/L	15 lu/L	12 lu/L	26 lu/L	7.0 - 35
AST ( GOT)	25lu/L	31 lu/L	25 lu/L	28 lu/L	28 lu/L	23 lu/L	36 lu/L	13 -35
<b>Blood Chemistry (Full Blood count).</b>								
Erythrocyte count	4.17 x10	4.43 x 10/L	4.08 x10/L	3.95 x 10/L	4.16 x10	3.99 x 10/L	3.93 x 10/L	3.8 - 5.5
Haemoglobin (HB)	11.0g IdL	11.1g/dL	10.9g/dl	9.6g/dL	10.9g/dl	10.7g/dl	10.5g/dl	12.4 -16.7
Platelets	230 x 10/L	299 x 10/L	494 x 10/L	468 x 10/L	290 x 10/L	329 x 10/L	231 x 10/L	150 - 450
Leucocytes Count	4.20 x 10 /L	4.20 x 10/L	4.60 x10/L	4.60 x 10/L	4.00 x 10 /L	3.90 x 10/L	4.50 x 10/L	4.0 - 12.0
Lymphocytes	1.41 x 10 /L	1.79 x 10/L	1.79 x10/L	1.97 x 10/L	1.64 x 10/L	1.86 x 10/L	1.69 x 10/L	1.0 - 4.0

CODE NO. 03								
FORMULATION		SONDASHI						
RESULTS	BASE	1 MONTH	2 MONTH	3 MONTHS	4 MONTHS	5 MONTHS	6 MONTHS	REF RANGE
<b>Kidney Function Tests</b>								
Urea	2.8mmol/L	2.7mmol/L	2.0mmol/L	2.4mmol/L	2.2mmol/L	2.4mmol/L	2.5mmol/L	2.1 - 7.1
Creatinine	55umol/L	48umol/L	65mmol/L	68mmol/L	67mmol/L	68mmol/L	68mmol/L	53 - 97
<b>Liver Function</b>								
ALT ( GPT)	14 lu/L	24 lu/L	14 lu/L	13 lu/L	11lu/L	13 lu/L	11 lu/L	7.0 - 35
AST ( GOT)	23lu/L	32 lu/L	22 lu/L	23 lu/L	21 lu/L	23 lu/L	22 lu/L	13 - 35
<b>Blood Chemistry (Full Blood count).</b>								
Erythrocyte count	4.88 x10	4.07 x10	4.74 x10/L	4.86 x 10/L	4.62 x 10/L	4.61 x 10/L	4.60 x 10/L	3.8 - 5.5
Haemoglobin (HB)	12.0g IdL	11.0g IdL	12.4g/dl	12.8g/dl	11.9g IdL	12.0g IdL	11.4g/dl	12.4 - 6.7
Platelets	194 x 10/L	209 x 10/L	222 x 10/L	245 x 10/L	249 x 10/L	248 x 10/L	259 x 10/L	150 - 450
Leucocytes Count	2.90 x 10 /L	3.30 x 10 /L	5.20 x10/L	3.40 x 10/L	3.50 x 10 /L	4.40 x 10 /L	4.00 x 10/L	4.0 - 120
Lymphocytes	1.32 x 10 /L	1.51 x 10 /L	1.34 x10/L	1.31 x 10/L	1.46 x 10/L	1.36 x 10/L	1.42 x 10/L	1.0 - 4.0

CODE No. 05								
FORMULATION		SONDASHI						
RESULTS	BASE	1 MONTH	2 MONTH	3 MONTHS	4 MONTHS	5 MONTHS	6 MONTHS	REF RANGE
<b>Kidney Function Tests</b>								
Urea	3.7mmol/L	2.9mol/L	3.7mmol/L	3.9mol/L	4.5mol/L	2.7mol/L	2.7mol/L	2.1 - 7.1
Creatinine	93umol/L	61mmol/L	89mmol/L	81mmol/L	86mmol/L	79mmol/L	79mmol/L	80 - 115
<b>Liver Function</b>								
ALT ( GPT)	23 lu/L	14 lu/L	18 lu/L	20 lu/L	24 lu/L	26 lu/L	26 lu/L	10 - 40.0
AST ( GOT)	43 lu/L	33 lu/L	31 lu/L	33 lu/L	35 lu/L	36 lu/L	36 lu/L	15 - 40.0
<b>Blood Chemistry (Full Blood count).</b>								
Erythrocyte count	4.25 x10/L	4.45x1010/L	4.49x10/L	4.41 x 10/L	4.57x10/L	4.78 x 10/L	4.70 x 10/L	45 - 6.5
Haemoglobin (HB)	13.6g/dL	14.2g/dL	14.5g/dL	13.9g/dL	13.9g/dL	14.7g/dL	14.4g/dL	13.8 - 18.8
Platelets	3.30 x 10/L	317 x10/L	297 x10/L	345 x10/L	274 x10/L	232 x10/L	273 x10/L	150 - 450
Leucocytes Count	118 x 10 /L	4.40 x10/L	3.10 x10/L	3.00 x10/L	3.20 x10/L	2.40 x10/L	3.40 x10/L	4.0 - 12.0
Lymphocytes	0.46 x 10 /L	1.58 x 10/L	1.39 x 10/L	1.57 x 10/L	1.53 x 10/L	1.14x 10/L	1.45x 10/L	1.0 - 4.0

CODE No. 07								
FORMULATION		SONDASHI						
RESULTS	BASE	1 MONTH	2 MONTH	3 MONTHS	4 MONTHS	5 MONTHS	6 MONTHS	REF RANGE
<b>Kidney Function Tests</b>								
Urea	3.0mmol/L	3.0mmol/L	1.8mmol/L	3.6mol/L	3.3mol/L	2.3mmol/L	2.6mmol/L	2.1 - 7.1
Creatinine	53umol/L	43umol/L	59mmol/L	64mmol/L	71mmol/L	55mmol/L	66mmol/L	53 - 97
<b>Liver Function</b>								
ALT ( GPT)	26 lu/L	19 lu/L	19 lu/L	17 lu/L	19 lu/L	17 lu/L	19 lu/L	7.0 - 35
AST ( GOT)	29 lu/L	19 lu/L	23 lu/L	21 lu/L	22 lu/L	22 lu/L	21 lu/L	13 - 35
<b>Blood Chemistry (Full Blood count).</b>								
Erythrocyte count	4.39 x10R/L	4.32 x 10R/L	4.42 x 10/L	4.48x 10 /L	4.43x 10/L	4.38 x 10 /L	4.31 X10/L	3.8 - 5.5
Haemoglobin (HB)	13.8g/dL	13.1g/dL	14.0g/dL	14.5g/dL	13.8g/dL	13.9g/dL	13.3g /dL	12.4 - 16.7
Platelets	319 x 10/L	311 x 10/L	367x10/L	385 x10/L	366 x10/L	354x10/L	398 x 10/L	130 - 450
Leucocytes Count	3.70 x 10 /L	4.40 x 10 /L	5.10 x10/L	4.20 x10/L	4.30 x10/L	5.10 x10/L	5.40 x 10 /L	4.0 - 12.0
Lymphocytes	1.76 x 10 /L	1.62 x 10 /L	1.90 x 10/L	1.49 x 10/L	1.20 x 10/L	1.58 x 10/L	1.70 x 10 /L	1.0 - 4.0

CODE NO. 08		SONDASHI						
FORMULATION		SONDASHI						
RESULTS	BASE	1 MONTH	2 MONTH	3 MONTHS	4 MONTHS	5 MONTHS	6 MONTHS	REF RANGE
<b>Kidney Function Tests</b>								
Urea	262mmol/L		2.9mmol/L	2.2mmol/L	2.4mmol/L	2.1mmol/L	2.2mmol/L	2.1 - 7.1 80 - 115
Creatinine	75umol/L		77mmol/L	74mmol/L	72mmol/L	72mmol/L	77mmol/L	
<b>Liver Function</b>								
ALT ( GPT)	24 lu/L		34lu/L	26 lu/L	40 lu/L	38 lu/L	27 lu/L	10.0 - 40 15 - 40
AST ( GOT)	41 lu/L		52lu/L	58lu/L	60lu/L	58lu/L	37 lu/L	
<b>Blood Chemistry (Full Blood count).</b>								
Erythrocyte count	4.12 x10/L		4.19 x 10/L	4.35 x 10/L	4.60 x 10/L	4.99 x 10/L	4.60 x 10/L	4.5 - 6.5 13.8 - 10.0
Haemoglobin (HB)	14.6g /dL		14.3g/dl	13.8g/dL	14.3g/dl	15.2g/dl	14.0g/dl	
Platelets	275 X 10/L		196 x 10/L	264 x 10/L	242 x 10/L	252 x 10/L	252 x 10/L	150 - 450
Leucocytes Count	4.90 x 10 /L		4.10 x 10/L	3.70 x 10/L	3.70 x 10/L	4.30 x 10/L	3.50 x 10/L	
Lymphocytes	2.29 x 10/L		1.55 x 10/L	1.56 x 10/L	1.51 x 10/L	1.65 x 10/L	1.36 x 10/L	4.0 - 12.0 2.0 - 4.0

CODE NO. 10		SONDASHI						
FORMULATION		SONDASHI						
RESULTS	BASE	1 MONTH	2 MONTH	3 MONTHS	4 MONTHS	5 MONTHS	6 MONTHS	REF RANGE
<b>Kidney Function Tests</b>								
Urea	6.2mmol/L	4.0mmol/L	5.0mmol/L	6.7mmol/L	4.2mmol/L	3.7mmol/L	4.5mmol/L	2.1 - 7.1 53 - 97
Cireatinine	70umol/L	54umol/L	77mmol/L	85mmol/L	81mmol/L	65mmol/L	73mmol/L	
<b>Liver Function</b>								
ALT ( GPT)	23 lu/L	13 lu/L	24lu/L	19lu/L	20lu/L	25lu/L	18 lu/L	7.0 - 35 13 -35
AST ( GOT)	41 lu/L	24 lu/L	29lu/L	43lu/L	43lu/L	37lu/L	40 lu/L	
<b>Blood Chemistry (Full Blood count).</b>								
Erythrocyte count	4.10 x10/L	3.87 x10/L	4.02 x 10/L	4.16 x 10/L	4.16 x 10/L	3.98 x 10/L	4.07 x 10/L	3.8 - 5.5 12.4 - 16.7
Haemoglobin (HB)	9.3g /dL	10.0g /dL	10.1g/dl	10.2g/dl	10.0g/dl	9.4g/dl	9.8g/dl	
Platelets	270 x 10/L	223 X 10/L	3.03 x 10/L	277 x 10/L	271 x 10/L	287 x 10/L	248 x 10/L	150 - 450
Leucocytes Count	4.10 x 10 /L	3.50 x 10 /L	3.10 x 10/L	2.70 x 10/L	3.00 x 10/L	2.70 x 10/L	2.50 x 10/L	
Lymphocytes	1.38 x 10/L	1.44 x 10/L	1.34 x 10/L	0.69 x 10/L	1.36 x 10/L	0.95 x 10/L	0.81 x 10/L	4.0 - 12.0 1.0 - 4.0

**4.2.1 Monthly results of Immunology and Virology Response of the Sondashi Formulation from 17<sup>th</sup> November 2005 to 23<sup>rd</sup> April 2006:**

A.	<b>CD4 COUNT</b>							
No.	CODE	BASE	1 MTH	2 MTHS	3 MTHS	4 MTHS	5 MTHS	6 MTHS
1	01	324	244	312	276	299	534	391 ↑
2	02	394	361	519	471	527	449	528 ↑
3	03	131	189	182	222	166	244	293 ↑
4	05	202	250	253	236	210	253	295 ↑
5	07	380	491	460	351	269	413	518 ↑
6	08	(176)	103	116	109	94	100	127 ↓
7	10	(95)	78	107	53	55	86	80 ↓
8	14	(179)	144	160	211	226	199	222 ↑
9	17	(144)	156	123	131	140	146	173 ↑
10	22	338	284	293	282	330	270	285 ↓
	<b>VIRAL LOAD</b>							
1	01	30,597	41,466	18,682	21,066	188,868	11,850	20,212 ↓
2	02	88,673	85,118	103,847	205,712	94,052	27,988	128,890 ↓
3	03	54,216	20,914	26,840	31,718	32,967	41,794	28,597 ↓
4	05	220,724	51,756	93,342	248,705	159,225	57,930	112,794 ↓
5	07	8,384	1,850	916	1,656	1,482	1,426	3,252 ↓
6	08	4,699,204	672,880	584,746	461,914	347,119	53,281	466,031 ↓
7	10	351,866	998,518	176,999	284,374	553,660	698,549	369,965 ↓
8	14	271,463	210,762	83,086	119,035	118,624	63,508	126,202 ↓
9	17	149,766	308,713	310,292	679,862	567,010	216,612	627,016 ↓
10	22	243,003	78,855	95,932	219,224	117,067	45,766	120,115 ↓