

**2013**

**Anti-Doping Testing  
Figures Report  
(NDTL)**

# 2013 Anti-Doping Testing Figures Report (NDTL)

## TABLE OF CONTENTS

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**Table – 1:** Total no. of Samples (Urine and Blood) received by NDTL in 2013

**Table – 2:** Total no. of Samples (Urine & Blood) analysed by NDTL in 2013.

**Table – 3:** Details of Urine Samples tested at NDTL in 2013 (Discipline-wise)

**Table – 4:** Summary of urine samples tested for Erythropoietin (EPO) in Urine at NDTL in 2013.

**Table – 5:** Summary of samples with Adverse Analytical Findings (Urine) reported by NDTL in 2013.

**Table – 6:** Details of Samples with Adverse Analytical Findings reported by NDTL in 2013 (Discipline-wise).

**Table – 7:** Summary – Substance identified in Each Drug Class

**Table – 8:** Details of Samples with Adverse Analytical Findings reported by NDTL in 2013 (Discipline-wise and in each drug class).

**Table – 9:** Substance Identified in Each Drug Class

**Table – 10:** Details of sample tested for GC-IRMS analysis at NDTL (2013)

**Table – 11:** hGH, Transfusion, HOBS, blood Parameter and CERA test conducted at NDTL (2013)

## TERMS AND ABBREVIATIONS

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IC	: In-competition
OC	: Out-of-Competition
AAF	: Adverse Analytical Finding
CERA	: continuous erythropoietin receptor activator
GC-IRMS	: Gas Chromatograph Isotope Ratio Mass Spectrometer
EPO	: Erythropoietin
hGH	: Human Growth Hormone
HBT	: Homologous Blood Transfusion
HBOCS	: Haemoglobin Based Oxygen Carriers
NDTL	: National Dope Testing Laboratory
WADA	: World Anti-Doping Agency

## 2013 Anti-Doping Testing Figures Report (NDTL)

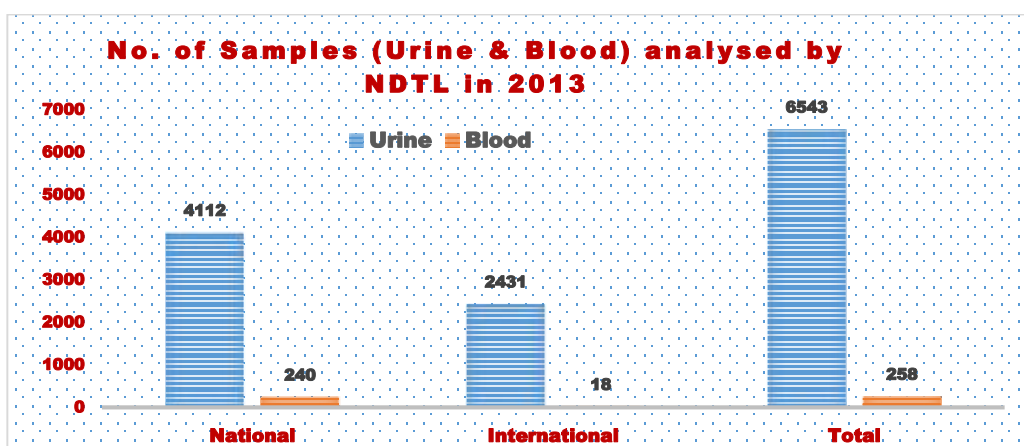
**Table – 1: Total no. of Samples (Urine and Blood) received by NDTL in 2013**

		Total no of samples received
Urine	National	4254 (65 %)
	International	2280 (35 %)
	<b>Total</b>	<b>6534</b>
Blood	National	240 (93 %)
	International	18 (7%)
	<b>Total</b>	<b>258</b>

**Table – 2: Total no. of Samples (Urine & Blood) analysed by NDTL in 2013\* .**

Sample	National	International	Total
Urine	4112 (62.8%)	2431 (37.2 %)	6543
Blood	240	18	258

\* : These figure are from date of reporting (Jan. 2013 to 31<sup>st</sup> Dec. 2013)



## 2013 Anti-Doping Testing Figures Report (NDTL)

**Table – 3: Details of Urine Samples tested at NDTL in 2013 (Discipline-wise)**

Discipline	Competition (C)			Out of Competition (OC)			Total (C + OC)
	Nat.	Int.	Total	Nat.	Int.	Total	
Athletics	970	298	1268	319	42	361	1629
Aquatics	106	90	196	34	35	69	265
Archery	31	8	39	9	4	13	52
Badminton	21	73	94	28	14	42	136
Body Building	13	22	35	0	21	21	56
Billiards	0	1	1	0	0	0	1
Basketball	16	65	81	15	10	25	106
Boxing	65	21	86	338	1	339	425
Bowling	0	2	2	0	7	7	9
Chess	0	2	2	0	1	1	3
Cricket	0	231	231	0	113	113	344
Cycling	217	270	487	16	8	24	511
Dragon Boat Race	0	0	0	0	4	4	4
Equestrian	0	0	0	0	1	1	1
Fencing	32	14	46	0	8	8	54
Foot ball	36	158	194	0	16	16	210
Golf	0	3	3	17	0	17	20
Gymnastics	0	9	9	8	1	9	18
Handball	17	40	57	0	5	5	62
Hockey	67	48	115	89	4	93	208
Ice Hockey	0	0	0	0	1	1	1
Judo	84	36	120	14	8	22	142
Karate	0	30	30	0	17	17	47
Kabaddi	61	0	61	105	0	105	166
Kayaking & Canoeing	20	0	20	17	13	30	50
Muaythai	0	6	6	0	0	0	6
Netball	24	17	41	2	0	2	43
Pencaksilat	0	35	35	0	22	22	57
Pentanque/Boules Sports	0	3	3	0	0	0	3
Powerlifting	49	120	169	1	15	16	185
Rugby	0	24	24	1	5	6	30
Rowing	61	0	61	53	5	58	119
Sailing	0	0	0	0	28	28	28
Shooting	39	10	49	47	8	55	104
Skating	0	0	0	0	4	4	4
Squash	0	10	10	0	0	0	10
Sepaktaraw	0	6	6	0	12	12	18
Table Tennis	43	37	80	4	21	25	105
Tennis	0	2	2	4	0	4	6
Triathlon	0	8	8	0	0	0	8
Taekwondo	16	31	47	38	23	61	108

Discipline	Competition (C)			Out of Competition (OC)			Total (C + OC)
	Nat.	Int.	Total	Nat.	Int.	Total	
Volleyball	108	42	150	2	5	7	157
Wrestling	157	64	221	31	3	34	255
Wushu	0	44	44	0	0	0	44
Wt. Lifting	354	28	382	313	29	342	724
Water Sports	0	6	6	0	0	0	6
Water skiing	0	3	3	0	0	0	3
	<b>2607</b>	<b>1917</b>	<b>4524</b>	<b>1505</b>	<b>514</b>	<b>2019</b>	<b>6543</b>

**Table – 4:** Summary of urine samples tested for Erythropoietin (EPO) in Urine at NDTL in 2013.

Samples	National	International	Total	% AAF
Competition	150	23	173	0
Out of Competition	9	2	11	0
<b>Total</b>	<b>159</b>	<b>25</b>	<b>184</b>	<b>0</b>

**Table – 5:** Summary of samples with Adverse Analytical Findings (Urine) reported by NDTL in 2013.

Samples	National	International	Total
Urine	101 <b>(2.46 %)</b>	80 <b>(3.29 %)</b>	181 <b>(2.77 %)</b>
Blood	Nil	Nil	Nil

## 2013 Anti-Doping Testing Figures Report (NDTL)

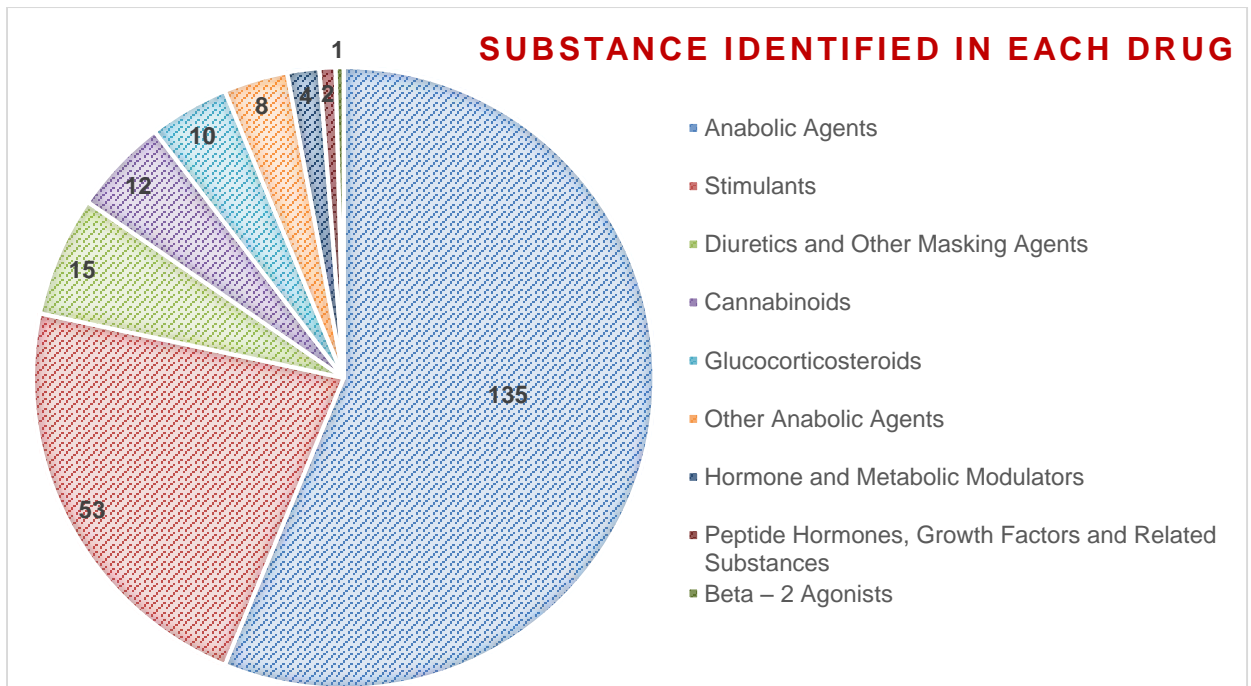
**Table – 6:** Details of Samples with Adverse Analytical Findings (AAF) reported by NDTL in 2013 (Discipline-wise).

Discipline	National	International	Total	% AAF
Athletics	27	11	38	21
Wt. Lifting	22	2	24	13.3
Powerlifting	13	8	21	11.6
Body Building	7	7	14	7.7
Boxing	4	9	13	7.2
Cycling	3	9	12	6.6
Judo	7	2	9	5
Wrestling	7	1	8	4.4
Foot ball	1	6	7	3.9
Kabaddi	6	0	6	3.3
Basketball	0	5	5	2.8
Aquatics	2	2	4	2.2
Table Tennis	0	4	4	2.2
Cricket	0	3	3	1.7
Handball	0	3	3	1.7
Taekwondo	1	2	3	1.7
Rugby	0	2	2	1.1
Karate	0	1	1	0.6
Pencaksilat	0	1	1	0.6
Tennis	0	1	1	0.6
Volleyball	1	0	1	0.6
Water Polo	0	1	1	0.6
<b>Total</b>	<b>101</b>	<b>80</b>	<b>181</b>	

**Table – 7: Summary – Substance identified in Each Drug Class**

Substance Group		Occurrences	NDTL %	WADA %
S. 1.1	Anabolic Agents	135	54.0	63 %
S. 6	Stimulants	53	21.2	10 %
S. 5	Diuretics and Other Masking Agents	15	6.0	7.5 %
S. 8	Cannabinoids	12	4.8	3.6 %
S. 9	Glucocorticosteroids	10	4.0	6.3 %
S. 1.2	Other Anabolic Agents	8	3.2	-
S. 4	Hormone and Metabolic Modulators	4	1.6	1.8 %
S. 2	Peptide Hormones, Growth Factors and Related Substances	2	0.8	3.8 %
S. 3	Beta – 2 Agonists	1	0.4	2.6 %
<b>TOTAL</b>		<b>250*</b>		

**NOTE: Few of the samples contained more than one drug or multiple findings on the same athlete**



**2013 Anti-Doping Testing Figures Report (NDTL)**

**Table – 8:** Details of Samples with Adverse Analytical Findings reported by NDTL in 2013 (Discipline-wise and in each drug class).

<b>Discipline</b>	<b>S 1.1</b>	<b>S1.2</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>	<b>S8</b>	<b>S9</b>	<b>Total</b>
Athletics	32	1	-	-	1	1	10	2	1	<b>50</b>
Aquatics	1	-	-	-	-	-	4	-	-	<b>5</b>
Body Building	20	5	-	-	1	5	-	-	-	<b>31</b>
Basketball	-	-	-	-	-	-	4	2	-	<b>6</b>
Boxing	7	1	-	-	1	-	4	4	-	<b>17</b>
Cricket	1	-	-	-	-	-	-	1	1	<b>3</b>
Cycling	11	-	-	-	-	1	2	-	2	<b>16</b>
Foot ball	-	-	-	1	1	-	6	-	-	<b>8</b>
Handball	4	-	-	-	-	-	-	-	-	<b>4</b>
Judo	7	-	-	-	-	1	4	1	-	<b>13</b>
Karate	-	-	-	-	-	1	-	-	-	<b>1</b>
Kabaddi	4	-	-	-	-	-	3	-	-	<b>6</b> <b>7</b>
Pencaksilat	-	-	-	-	-	-	1	-	-	<b>1</b>
Powerlifting	26	-	-	-	-	-	1	-	2	<b>29</b>
Rugby	-	-	-	-	-	-	2	-	-	<b>2</b>
Table Tennis	2	-	-	-	-	-	2	-	-	<b>4</b>
Tennis	-	-	-	-	-	-	1	-	-	<b>1</b>
Taekwondo	-	-	-	-	-	1	-	1	4	<b>6</b>
Volleyball	1	-	-	-	-	-	-	-	-	<b>1</b>
Wrestling	1	-	-	-	-	1	8	-	-	<b>10</b>
Wt. Lifting	16	1	2	-	-	4	-	1	-	<b>24</b>
Water Polo	-	-	-	-	-	-	1	-	-	<b>1</b>
<b>Total</b>	<b>133</b>	<b>8</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>15</b>	<b>53</b>	<b>12</b>	<b>10</b>	<b>250</b>

**NOTE:** Few of the samples contained more than one drug or multiple findings on the same athlete



## 2013 Anti-Doping Testing Figures Report (NDTL)

**Table – 9: Substance Identified in Each Drug Class**

<b>S. 1.1 Anabolic Agents</b>	<b>Occurrences</b>	<b>% within drug class</b>
Nandrolone metabolite(s)	43	31.9 %
Stanozolol	33	24.4 %
Methandienone	26	19.3 %
T/E ratio >4	10	7.4 %
Drostanolone	5	3.5 %
Metenolone	4	3.0 %
Trenbolone	4	3.0 %
Boldenone	3	2.2 %
Metenolone	3	2.2 %
Mestrolone	2	1.5 %
Methyl 1-testosterone	1	0.7 %
Oxandrolone	1	0.7 %
Oxymetholone	1	0.7 %
Norethandrolone	1	0.7 %

**TOTAL 135**

<b>S. 1.2 Other Anabolic Agents</b>	<b>Occurrences</b>	<b>% within drug class</b>
Clenbuterol	08	100 %

**TOTAL 08**

<b>S. 2 Peptide Hormones, Growth Factors and Related Substances</b>	<b>Occurrences</b>	<b>% within drug class</b>
hCG	02	100 %

**TOTAL 02**

<b>S. 3 Beta – 2 Agonists</b>	<b>Occurrences</b>	<b>% within drug class</b>
Terbutaline	01	100 %

**TOTAL 01**

<b>S. 4 Hormone and Metabolic Modulators</b>	<b>Occurrences</b>	<b>% within drug class</b>
Temoxifen	02	50 %
Clomiphene	02	50 %

**TOTAL 04**

<b>S. 5 Diuretics and Other Masking Agents</b>	<b>Occurrences</b>	<b>% within drug class</b>
Furosemide	13	86.7 %
Spirolactone	02	13.3 %

**TOTAL      15**

<b>S. 6 Stimulants</b>	<b>Occurrences</b>	<b>% within drug class</b>
Methylhexaneamine (MHA)	24	45.3 %
Amphetamine	11	20.8 %
Mephentemine	06	11.3 %
Phentermine	04	7.5 %
Sibutramine	03	5.7 %
d-methamphetamine	03	5.7 %
Ephedrine	01	1.9 %
Methylphenidate	01	1.9 %

**TOTAL      53**

<b>S. 8 Cannabinoids</b>	<b>Occurrences</b>	<b>% within drug class</b>
THC	12	100 %

**TOTAL      12**

<b>S. 9 Glucocorticosteroids</b>	<b>Occurrences</b>	<b>% within drug class</b>
Budesonide	04	40 %
Prednisolone	03	30 %
Prednisone	02	20 %
Triamcinolone	01	10 %

**TOTAL      10**

## 2013 Anti-Doping Testing Figures Report (NDTL)

**Table – 10:** Details of sample tested for GC-IRMS analysis at NDTL (2013)

<u>Sports Discipline</u>	In-Competition (IC)	Out of Competition (OC)	Total (IC +OC)	% AAF
Athletics	20	6	26	-
Basketball	10	-	10	-
Bodybuilding	01	-	01	-
Boxing	01	-	01	-
Cricket	04	03	07	-
Cycling	09	01	10	03
Kabaddi	03	-	03	01
Karate	01	-	01	-
Powerlifting	01	-	01	01
Rowing	03	-	03	-
Shooting	01	-	01	-
Swimming	03	-	03	-
Taekwondo	02	-	02	-
Waterpolo	-	03	03	01
Wrestling	03	02	05	01
Weightlifting	09	05	14	03
Wushu	01	-	01	-
<b>Total</b>	<b>63</b>	<b>20</b>	<b>83</b>	<b>10</b>

AAF: Adverse Analytical Finding

**Table –11:** hGH, Transfusion, HBOCS, CERA and blood parameters test conducted at NDTL (2013)

Test Methods	In-Competition (IC)		Out of Competition (OC)		Total (IC + OC)	
	Sample	% AAF	Sample	% AAF	Sample	% AAF
hGH	42	0	126	0	168	0
HBT	0	0	33	0	33	0
HBOCS	42	0	159	0	201	0
Blood Parameters	29	0	18	0	47	0
CERA	47	0	126	0	173	0

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