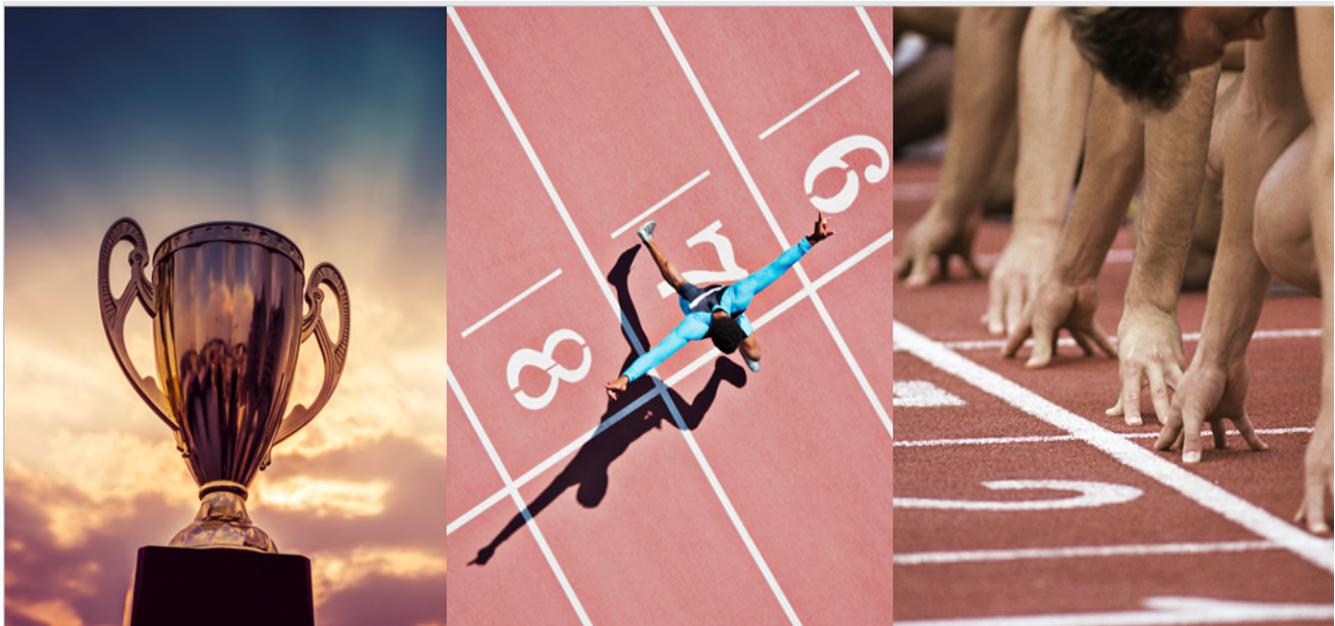




Australian Government  
Department of Industry,  
Science and Resources

National  
Measurement  
Institute



# Sports Doping Control Catalogue December 2023

*Quality reference materials for identification and calibration are essential to making accurate chemical measurements in sports doping control*

[measurement.gov.au](http://measurement.gov.au)

Category	Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
Androstan-4,6-dienes	Androstan-4,6-diene-17 $\beta$ -ol-3-one	S007	1 (ampoule)	121	169
Bolasterone metabolites	7 $\alpha$ ,17 $\alpha$ -Dimethyl-5 $\beta$ -androstane-3 $\alpha$ ,17 $\beta$ -diol	D614	1	155	218
Bolasterone metabolites	7 $\alpha$ ,17 $\alpha$ -Dimethyl-5 $\beta$ -androstane-3 $\alpha$ ,17 $\beta$ -diol glucuronide	D628	1	188	264
Boldenone and metabolites	Boldenone (1,4-Androstadiene-17 $\beta$ -ol-3-one)	S008b	10	121	169
Boldenone and metabolites	Boldenone cypionate	S032	5	155	218
Boldenone and metabolites	d <sub>3</sub> -17 $\beta$ -Boldenone	D581b	1 (ampoule)	155	218
Boldenone and metabolites	17 $\beta$ -Boldenone sulfate (Et <sub>3</sub> N salt)	D931	5	155	218
Boldenone and metabolites	17 $\beta$ -Boldenone glucuronide (K <sup>+</sup> salt)	D862	1	228	319
Boldenone and metabolites	d <sub>3</sub> -17 $\beta$ -Boldenone sulfate (Et <sub>3</sub> N salt)	S013	1 (ampoule)	188	264
Boldenone and metabolites	17 $\alpha$ -Boldenone (Epiboldenone)	D582b	1 (ampoule)	121	169
Boldenone and metabolites	5 $\beta$ -Androst-1-en-17 $\beta$ -ol-3-one	D564	1 (ampoule)	121	169
Boldenone and metabolites	5 $\beta$ -Androst-1-en-17 $\beta$ -ol-3-one glucuronide (free acid)	D935	1 (ampoule)	155	218
Boldenone and metabolites	5 $\beta$ -Androst-1-en-3 $\alpha$ -ol-17-one	S022	1 (ampoule)	121	169
Calusterone and metabolites	Calusterone	D618	1	155	218
Calusterone and metabolites	7 $\beta$ ,17 $\alpha$ -Dimethyl-5 $\beta$ -androstane-3 $\alpha$ ,17 $\beta$ -diol	D624	1 (ampoule)	155	218
Calusterone and metabolites	7 $\beta$ ,17 $\alpha$ -Dimethyl-5 $\beta$ -androstane-3 $\alpha$ ,17 $\beta$ -diol glucuronide	D629	1	188	264
Clostebol metabolite	4-Chloro-4-androsten-3 $\alpha$ -ol-17-one	D563	1 (ampoule)	121	169

Category	Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
Danazol metabolites	2 $\alpha$ -Hydroxymethylethisterone*	D920b	1	121	169
Drostanolone, esters, and metabolites	Drostanolone	S026b	1	121	169
Drostanolone, esters, and metabolites	Drostanolone enanthate	S027	40	121	169
Drostanolone, esters, and metabolites	Drostanolone propionate	S025	20	121	169
Drostanolone, esters, and metabolites	2 $\alpha$ -Methyl-5 $\alpha$ -androstan-3 $\alpha$ -ol-17-one	D567	1	121	169
Drostanolone, esters, and metabolites	2 $\alpha$ -Methyl-5 $\alpha$ -androstan-3 $\alpha$ -ol-17-one-3 $\beta$ -D-glucuronide (Na salt)	D601	1	155	218
Finasteride metabolites	Carboxy finasteride*	S045	1	121	169
Fluoxymesterone metabolites	9 $\alpha$ -Fluoro-17,17-dimethyl-18-nor-androstan-4,13-diene-11 $\beta$ -ol-3-one	D571	1 (ampoule)	121	169
Fluoxymesterone metabolites	9 $\alpha$ -Fluoro-17 $\alpha$ -methyl-4-androsten-3 $\alpha$ ,6 $\beta$ ,11 $\beta$ ,17 $\beta$ -tetra-ol	D616	1 (ampoule)	121	169
Fluoxymesterone metabolites	6 $\beta$ -Hydroxyfluoxymesterone	D617	1 (ampoule)	121	169
Formebolone metabolite	2-Hydroxymethyl-17 $\alpha$ -methylandrostadiene-11 $\alpha$ ,17 $\beta$ -diol-3-one	D622	1 (ampoule)	155	218
Furazabol metabolite	16 $\beta$ -Hydroxyfurazabol	D602	1	121	169
4-Hydroxysteroids	4-Hydroxytestosterone	D851b	1 (ampoule)	155	218
4-Hydroxysteroids	4-Hydroxyandrostendione (Formestane)	D852b	1 (ampoule)	155	218
4-Hydroxysteroids	4-Hydroxynandrolone (Oxabolone)	D853c	1 (ampoule)	121	169
4-Hydroxysteroids	1,6,7-d3-4-Hydroxyandrostendione - PCC	S046	0.2 (ampoule)	121	169
Mesterolone and metabolites	Mesterolone	S037	20	121	169

Category	Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
Mesterolone and metabolites	1 $\alpha$ -Methyl-5 $\alpha$ -androstan-3 $\alpha$ -ol-17-one	D557	1 (ampoule)	121	169
Mesterolone and metabolites	1 $\alpha$ -Methyl-5 $\alpha$ -androstan-3 $\alpha$ -ol-17-one glucuronide	D598	1 (ampoule)	155	218
Mesterolone and metabolites	1 $\alpha$ -Methyl-5 $\alpha$ -androstan-3 $\alpha$ ,17 $\beta$ -diol	D556	1 (ampoule)	121	169
Mesterolone and metabolites	1 $\alpha$ -Methyl-5 $\alpha$ -androstan-3 $\alpha$ ,17 $\beta$ -diol glucuronide	D599	1 (ampoule)	155	218
Metenolone metabolites	1-Methylene-5 $\alpha$ -androstan-3 $\alpha$ -ol-17-one	D619	1 (ampoule)	121	169
Metenolone metabolites	1-Methylene-5 $\alpha$ -androstan-3 $\alpha$ -ol-17-one glucuronide	D597	1 (ampoule)	155	218
Methandienone and metabolites	Methandienone	D630	10	121	169
Methandienone and metabolites	17-Epimethandienone	D562	1 (ampoule)	121	169
Methandienone and metabolites	6 $\beta$ -Hydroxymethandienone	D565	1 (ampoule)	121	169
Methandienone and metabolites	Epimetendiol	D638	1 (ampoule)	188	264
Methandienone and metabolites	17,17-Dimethyl-18-nor-5 $\beta$ -androsta-1,13-diene-3 $\alpha$ -ol	D639	1 (ampoule)	188	264
Methandienone and metabolites	17,17-Dimethyl-18-norandrosta-1,4,13-trien-3-one	D576	5	155	218
Methasterone	Methasterone	S021	20	121	169
Methyltestosterone metabolites	17 $\alpha$ -Methyl-5 $\alpha$ -androstane-3 $\alpha$ ,17 $\beta$ -diol	D560	1 (ampoule)	121	169
Methyltestosterone metabolites	17 $\alpha$ -Methyl-5 $\beta$ -androstane-3 $\alpha$ ,17 $\beta$ -diol	D561	1 (ampoule)	121	169
Methyltestosterone metabolites	d3-17 $\alpha$ -Methyl-5 $\beta$ -androstan-3 $\alpha$ ,17 $\beta$ -diol	D928	1 (ampoule)	121	169
17 $\alpha$ -Methyl-1-testosterone	17 $\beta$ -Hydroxy-17 $\alpha$ -methyl-5 $\alpha$ -androst-1-ene-3-one	D904	1 (ampoule)	121	169
Nandrolone and metabolites	Nandrolone	S038	10	121	169

Category	Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
Nandrolone and metabolites	d <sub>3</sub> -17 $\beta$ -Nandrolone	D583	5	228	319
Nandrolone and metabolites	d <sub>3</sub> -17 $\beta$ -Nandrolone sulfate (Et <sub>3</sub> N salt)	D782b	1 (ampoule)	155	218
Nandrolone and metabolites	<sup>13</sup> C <sub>2</sub> -17 $\beta$ -Nandrolone	D679	5	188	264
Nandrolone and metabolites	17 $\beta$ -Nandrolone decanoate	D684b	10	121	169
Nandrolone and metabolites	17 $\beta$ -Nandrolone glucuronide (K <sup>+</sup> salt)	D861	1	228	319
Nandrolone and metabolites	17 $\beta$ -Nandrolone phenylpropionate	S029	20	121	169
Nandrolone and metabolites	17 $\beta$ -Nandrolone sulfate (Na <sup>+</sup> salt)	D809b	1	121	169
Nandrolone and metabolites	17 $\alpha$ -Nandrolone (epi-nandrolone)	D722e	1 (ampoule)	121	169
Nandrolone and metabolites	17 $\alpha$ -Nandrolone sulfate	D783b	5	121	169
Nandrolone and metabolites	d <sub>4</sub> -19-Noretiocholanolone	D742	1 (ampoule)	155	218
Nandrolone and metabolites	19-Noretiocholanolone	D554	1 (ampoule)	121	169
Nandrolone and metabolites	19-Noretiocholanolone glucuronide (Na salt)	D595a	1 (ampoule)	155	218
Nandrolone and metabolites	d <sub>4</sub> -19-Norandrosterone	D584c	1 (ampoule)	155	218
Nandrolone and metabolites	d <sub>4</sub> -19-Norandrosterone glucuronide (Na <sup>+</sup> salt)*	D898b	1 (ampoule)	121	169
Nandrolone and metabolites	19-Norandrosterone	D555a	1 (ampoule)	121	169
Nandrolone and metabolites	19-Norandrosterone glucuronide (Na <sup>+</sup> salt)	D596a	1 (ampoule)	155	218
Nandrolone and metabolites	19-Norandrosterone sulfate (Et <sub>3</sub> N salt)	D841b	1 (ampoule)	121	169
Nandrolone and metabolites	5(10)-Estrene-3 $\beta$ ,17 $\alpha$ -diol	D926	Exhausted	N/A	N/A

Category	Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
Norbolethone and metabolites	Norbolethone ( $13\beta,17\alpha$ -diethyl-gonan-4-ene- $17\beta$ -ol-3-one)  Norbolethone ( $13\beta,17\alpha$ -diethyl-gonan-4-ene- $17\beta$ -ol-3-one) – <b>WADA</b>	D825b D825c	1 1	188 121	264 169
Norbolethone and metabolites	$13\beta,17\alpha$ -Diethyl- $5\beta$ -gonane- $3\alpha$ , $17\beta$ -diol (major metabolite)* - <b>WADA</b>	D818b	1 (ampoule)	121	169
Norbolethone and metabolites	$13\beta,17\alpha$ -Diethyl- $5\alpha$ -gonane- $3\alpha$ , $17\beta$ -diol (minor metabolite)* - <b>WADA</b>	D820b	1 (ampoule)	121	169
Norethandrolone metabolite	$17\alpha$ -Ethyl- $5\alpha$ -estrane- $3\alpha$ , $17\beta$ -diol	D558	1 (ampoule)	121	169
Norethandrolone metabolite	$17\alpha$ -Ethyl- $5\beta$ -estrane- $3\alpha$ , $17\beta$ -diol	D559	1 (ampoule)	121	169
Norethandrolone metabolite	$17\alpha$ -Hydroxyethyl- $5\beta$ -estrane- $3\alpha$ , $17\beta$ -diol †	S015	1 (ampoule)	121	169
Oral turinabol and metabolites (dehydrochloromethylt esterone)	Oral turinabol	D613	1 (ampoule)	121	169
Oxandrolone and metabolite	17-Epoxyandrolone	D620	1 (ampoule)	121	169
Oxandrolone and metabolite	Oxandrolone	S040	20	121	169
Prostanozol metabolites	3'-Hydroxy- $5\alpha$ -androstan[3,2-c]pyrazol-17-one †	S016	Exhausted	N/A	N/A
Prostanozol metabolites	3'-Hydroxy- $5\alpha$ -androstan[3,2-c]pyrazol-17-one †	S016b	In progress		
Prostanozol metabolites	$4\alpha/4\beta$ -Hydroxy- $5\alpha$ -androstan[3,2-c]pyrazol-17-one †	S019	1 (ampoule)	121	169
Prostanozol metabolites	$16\beta$ -Hydroxy- $5\alpha$ -androstan[3,2-c]pyrazol-17-one †	S017	1 (ampoule)	121	169
Stanozolol and metabolites	Stanozolol	D646	10	121	169

Category	Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
Stanozolol and metabolites	3'-Hydroxystanozolol	D577	1 (ampoule)	121	169
Stanozolol and metabolites	3'-Hydroxystanozolol glucuronide	D640	1 (ampoule)	188	264
Stanozolol and metabolites	4 $\alpha$ -Hydroxystanozolol	D642	1	121	169
Stanozolol and metabolites	4 $\beta$ -Hydroxystanozolol	D641	0.5 (ampoule)	121	169
Stanozolol and metabolites	16 $\beta$ -Hydroxystanozolol	D621	1	155	218
1-Testosterone	1-Testosterone (5 $\alpha$ -Androst-1-en-3-one-17 $\beta$ -ol)	D767c	1 (ampoule)	228	319
1-Testosterone	5 $\alpha$ -Androst-1-ene-3 $\beta$ ,17 $\beta$ -diol	D871b	1 (ampoule)	121	169
Tetrahydrogestrinone and precursors	Gestrinone	D860b	10	121	169
Tetrahydrogestrinone and precursors	Tetrahydrogestrinone (THG)	D872e	1	228	319
Trenbolone and metabolite	Trenbolone acetate	S024	20	121	169
Trenbolone and metabolite	Trenbolone enanthate	S028	5	121	169
Trenbolone and metabolite	17 $\alpha$ -Trenbolone (Epitrenbolone)	D708b	1	TBA	TBA
<b>ENDOGENOUS STEROIDS AND METABOLITES</b>					
Testosterone and metabolites	16,16,17-d <sub>3</sub> -Testosterone	D546	1 (ampoule)	155	218
Testosterone and metabolites	16,16,17-d <sub>3</sub> -Testosterone glucuronide (sodium salt)	S036	1 (ampoule)	121	169
Testosterone and metabolites	16,16,17-d <sub>3</sub> -Testosterone sulfate	D506b	1 (ampoule)	155	218
Testosterone and metabolites	19-d <sub>3</sub> -Testosterone	D644	Exhausted	N/A	N/A
Testosterone and metabolites	Testosterone	M914c	10	121	169

Category	Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
Testosterone and metabolites	Testosterone glucuronic acid	D507d	1 (ampoule)	155	218
Testosterone and metabolites	Testosterone sulfate (Et <sub>3</sub> N salt)	D508	1 (ampoule)	121	169
Testosterone and metabolites	Testosterone acetate	S042	10	121	169
Testosterone and metabolites	Testosterone cypionate	S018	20	121	169
Testosterone and metabolites	Testosterone decanoate	D683	10	121	169
Testosterone and metabolites	Testosterone enanthate	D773d	1	121	169
Testosterone and metabolites	Testosterone isocaproate (4-methylpentanoate)	D688b	10	121	169
Testosterone and metabolites	Testosterone phenylpropionate	S030	20	121	169
Testosterone and metabolites	Testosterone propionate	D710b	25	121	169
Testosterone and metabolites	d <sub>3</sub> -Epitestosterone	D548	1 (ampoule)	155	218
Testosterone and metabolites	d <sub>4</sub> -Epitestosterone	S001	1 (ampoule)	155	218
Testosterone and metabolites	d <sub>3</sub> -Epitestosterone glucuronide	D604	Exhausted		
Testosterone and metabolites	d <sub>3</sub> -Epitestosterone sulfate	D591	1 (ampoule)	155	218
Testosterone and metabolites	Epitestosterone	D547b	1 (ampoule)	121	169
Testosterone and metabolites	Epitestosterone glucuronide (Na salt)	S035	1 (ampoule)	121	169
Testosterone and metabolites	Epitestosterone sulfate	D605	1 (ampoule)	121	169
Testosterone and metabolites	d <sub>4</sub> -Androsterone	D549	1 (ampoule)	155	218
Testosterone and metabolites	d <sub>4</sub> -Androsterone glucuronide	D829g	1 (ampoule)	155	218
Testosterone and metabolites	d <sub>4</sub> -Androsterone sulfate	D587	1 (ampoule)	155	218
Testosterone and metabolites	Androsterone	D550d	1 (ampoule)	121	169

Category	Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
Testosterone and metabolites	Androsterone glucuronide	D572b	1 (ampoule)	155	218
Testosterone and metabolites	Androsterone sulfate (Na <sup>+</sup> salt)	D610b	1 (ampoule)	121	169
Testosterone and metabolites	d <sub>5</sub> -Etiocholanolone	D528d	1 (ampoule)	121	169
Testosterone and metabolites	d <sub>5</sub> -Etiocholanolone sulfate	D606	1 (ampoule)	155	218
Testosterone and metabolites	Etiocholanolone	D551c	1 (ampoule)	121	169
Testosterone and metabolites	Etiocholanolone glucuronide (Na <sup>+</sup> salt)	D607b	1	155	218
Testosterone and metabolites	Etiocholanolone sulfate	D608	1 (ampoule)	121	169
Testosterone and metabolites	d <sub>3</sub> -5α-Dihydrotestosterone	D552	1 (ampoule)	155	218
Testosterone and metabolites	d <sub>3</sub> -5α-Dihydrotestosterone glucuronide free acid	D573b	1 (ampoule)	155	218
Testosterone and metabolites	d <sub>3</sub> -5α-Dihydrotestosterone sulfate	D590	1 (ampoule)	155	218
Testosterone and metabolites	5α-Dihydrotestosterone	D680	10	121	169
Testosterone and metabolites	5α-Dihydrotestosterone glucuronide free acid	S006	1	155	218
Testosterone and metabolites	5α-Dihydrotestosterone sulfate	D609	1 (ampoule)	121	169
Testosterone and metabolites	5α-Androstane-3α,17β-diol	D634b	1 (ampoule)	121	169
Testosterone and metabolites	d <sub>3</sub> -5α-Androstane-3α,17β-diol	D593	1	155	218
Testosterone and metabolites	5α-Androstane-3α,17β-diol-17-β-glucuronic acid	S002	1	121	169
Testosterone and metabolites	5α-Androstane-3α,17β-diol-3-O-β-glucuronide Na <sup>+</sup> salt	S051	1	155	218
Testosterone and metabolites	5α-Androstane-3β,17β-diol	D635	1 (ampoule)	155	218
Testosterone and metabolites	d <sub>3</sub> -5α-Androstane-3β,17β-diol	D594	1 (ampoule)	155	218

Category	Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
Testosterone and metabolites	5 $\beta$ -Androstane-3 $\alpha$ ,17 $\beta$ -diol	D636	1 (ampoule)	121	169
Testosterone and metabolites	5 $\beta$ -Androstane-3 $\alpha$ ,17 $\beta$ -diol-17- $\beta$ -glucuronic acid	S005	Exhausted	N/A	N/A
Testosterone and metabolites	5 $\beta$ -Androstane-3 $\alpha$ ,17 $\beta$ -diol-3- $\beta$ -glucuronic acid - <b>WADA</b>	S003b	1	155	218
Testosterone and metabolites	d <sub>5</sub> -5 $\beta$ -Androstane-3 $\alpha$ ,17 $\beta$ -diol	D580	1 (ampoule)	155	218
Testosterone and metabolites	5 $\beta$ -Androstane-3 $\beta$ ,17 $\beta$ -diol	D637	1 (ampoule)	155	218
Testosterone and metabolites	d <sub>5</sub> -5 $\beta$ -Androstane-3 $\beta$ ,17 $\beta$ -diol	S014	1 (ampoule)	121	169
Testosterone and metabolites	5 $\alpha$ -Androstane-3 $\beta$ ,17 $\beta$ -diol-3- $\beta$ -glucuronic acid	D678b	1 (ampoule)	155	218
Testosterone and metabolites	5 $\alpha$ -Androstane-3 $\beta$ -ol-17-one-3-glucuronide Na <sup>+</sup> salt	S031	1	121	169
Prohormones and metabolites	19-d <sub>3</sub> -Androstendione (no longer available)	D645	1 (ampoule)	207	290
	Androstendione	M955	10	121	169
	1,4-Androstadiene-3,17-dione (Boldendione)	D878	1(ampoule)	121	169
	Dehydroepiandrosterone (DHEA)	D796b	10	121	169
	6 $\beta$ -Hydroxyandosterone	D886b	1 (ampoule)	188	264
	7 $\beta$ -Hydroxy DHEA - <b>WADA</b>	D865b	1 (ampoule)	121	169
	19-Norandrostendione (Estrendione)	D721	10	121	169
<b>HORMONE ANTAGONISTS AND MODULATORS</b>					
Aromatase inhibitors	Bis-(4-cyanophenyl)methanol (Letrazole metabolite)*	D909c	1 (ampoule)	121	169
Selective Androgen Receptor Modulators (SARMs)	Andarine	D1074	1	121	169

Category	Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
Selective Androgen Receptor Modulators (SARMs)	Cardarine	D1077	1	121	169
Selective Androgen Receptor Modulators (SARMs)	Ligandrol (LGD-4033)	D1073	1	121	169
Selective Androgen Receptor Modulators (SARMs)	MK-677	D1078	1	121	169
Selective Androgen Receptor Modulators (SARMs)	Ostarine	D1075	5	121	169
Selective Androgen Receptor Modulators (SARMs)	RAD 140	D1076	1	121	169
Selective Estrogen Receptor Modulators (SERMs)	3-Hydroxy-4-methoxytamoxifen*	D921	1	121	169
Other anti-estrogenic substances	4-Hydroxycyclofenil*	D930	1 (ampoule)	121	169
Growth promotants and metabolites	Zearalenone	P1787b	10	188	264
Growth promotants and metabolites	$\alpha$ -Zearalenol	P1795	5	275	385
Growth promotants and metabolites	$\beta$ -Zearalenol	P1796	5	275	385
Growth promotants and metabolites	$\alpha$ -Zearalanol	P1801	5	121	169
Growth promotants and metabolites	$\beta$ -Zearalanol	P1802	5	121	169
Stimulants	Carphedon	D891b	10	121	169
Stimulants	Etilephrine hydrochloride	M880b	10	121	169
Stimulants	Propylhexedrine	M394	50	121	169
Stimulants	Terbutaline sulfate	M647b	20	121	169
Stimulants	Crotethamide* (currently not available)	M450	50	110	154
Stimulants	Cropropamide* (currently not available)	M451	25	110	154
Stimulants	Cyclazadone†	D914	10	155	218
Stimulants	Famprofazone	D893	20	121	169

Category	Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
Stimulants	Fenbutrazate hydrochloride†	D915	1 (ampoule)	155	218
Stimulants	Fencamine†	D913	10	155	218
Stimulants	Fenproporex hydrochloride	D500b	25	121	169
Stimulants	Fenethylline hydrochloride	D543b	20	155	218
Stimulants	Heptaminol hydrochloride*	M299	50	121	169
Stimulants	6-Hydroxybromantane* (currently not available)	D889	10	N/A	N/A
Stimulants	Isometheptene mucate	D940	20	155	218
Stimulants	Mefenorex hydrochloride	D283b	50	121	169
Stimulants	(±)-4-Methylamphetamine hydrochloride	D895b	10	188	264
Stimulants	dl-Norephedrine hydrochloride (Phenylpropanolamine)	M296	100	121	169
Stimulants	(+)-Norpseudoephedrine hydrochloride (Cathine)	M297	50	121	169
Stimulants	Ortetamine hydrochloride†	D912b	10	228	319
Stimulants	Oxilofrine hydrochloride	D892b	5	121	169
Stimulants	Salbutamol	M898c	10	155	218
Stimulants	d <sub>3</sub> -Salbutamol	D939b	1	155	218
Stimulants	Salmeterol hydroxynaphthoate (exhausted)	M904	50	N/A	N/A
Stimulants	Selegiline hydrochloride	D822	50	155	218
Synthetic cannabinoids	AM2220 1-[(1-Methylpiperidin-2-yl)methyl]-3-(1-naphthoyl)-indole	D982	20	121	169
Synthetic cannabinoids	AM22201 [1-(5-Fluoropentyl)-3-(1-naphthoyl)-indole]	D983	20	121	169
Synthetic cannabinoids	JWH-018 [N-Pentyl-3-(1-naphthoyl)indole]	D955	20	155	218

Category	Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
Synthetic cannabinoids	JWH-210 [ <i>N</i> -Pentyl-3-(4-ethyl-1-naphthoyl)indole]	D984	5	121	169
Synthetic cannabinoids	XLR-11 [1-(5-Fluoropentyl)-3-(2,2,3,3-tetramethylcyclopropoyl)indole]	D1000	25	121	169
PDE-5 inhibitors	Tadalafil	D941	20	155	218

Description	NMI reference	Unit of issue (mg)	Domestic Cost (A\$) (excl GST)	International Cost (A\$)
<b>SUPPLIED WITH THE MANUFACTURER'S CERTIFICATE OF ANALYSIS</b>				
(These materials have not been certified by NMI)				
Bupranolol hydrochloride (exhausted)	M558	20	N/A	N/A
Dextromoramide tartrate (exhausted)	D529	50	N/A	N/A
Dipipanone hydrochloride (exhausted)	M642	20	N/A	N/A
Trimeperidine hydrochloride	M605	20	121	169

\*Production funded by the US Anti-Doping Agency.

†Production funded by the Australian Government through the Anti-Doping Research Program.

## **Restrictions on Issue**

The steroid and steroid metabolite reference materials are generally available to WADA accredited laboratories. Laboratories which **do not have** WADA accreditation must provide documented evidence, signed by the company manager, that these materials will not be used for unethical purposes related to commercial human sports drug analysis and that they will not be provided to other laboratories who may be engaged in this analysis.

## **NMI Reference Materials**

Reference Materials (RMs) produced by NMI are NATA accredited to ISO 17034:2016(E) and prepared in accordance with our accreditation.

RMs have demonstrated homogeneity and stability and are supplied with:

- Product information sheet
- Safety Data Sheet (SDS)

## **NMI Certified Reference Materials**

Certified Reference Materials (CRMs) produced by NMI have established metrological traceability to the SI unit for mass (kg).

CRMs have certified purity values, stated as a mass fraction with associated uncertainty and are supplied with:

- Certificate of Analysis (CoA)

## **Candidate materials**

All care is taken in the storage and handling of these materials however they are not independently certified by NMI.

Individual unit issue size varies depending on the amount available and the difficulty of obtaining the

replacement compound. They can be provided with the analytical information available.

## **Ampouled Materials**

For each ampouled reference material the product information sheet / certificate of analysis will state the mass of analyte dispensed into each ampoule.

## **GST charges (Australian customers only)**

The prices quoted are EXCLUSIVE of Goods and Services Tax (GST). The current GST rate is 10%. Upon delivery of the requested reference materials NMI will issue valid tax invoices and, if required, adjustment notes as per the requirements of the GST legislation.

## **Delivery Fee**

Delivery and handling fees apply for all orders and vary with destination. Please check the applicable rates when ordering.

## **For further information**

 + (612) 9449 0191

 chemref@measurement.gov.au

 www.measurement.gov.au/chemref

NMI reference materials available globally through our international partner:

LGC Standards  
Web: [www.lgcstandards.com](http://www.lgcstandards.com)



**NATA logo notice:** Accredited for compliance with ISO 17034.  
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