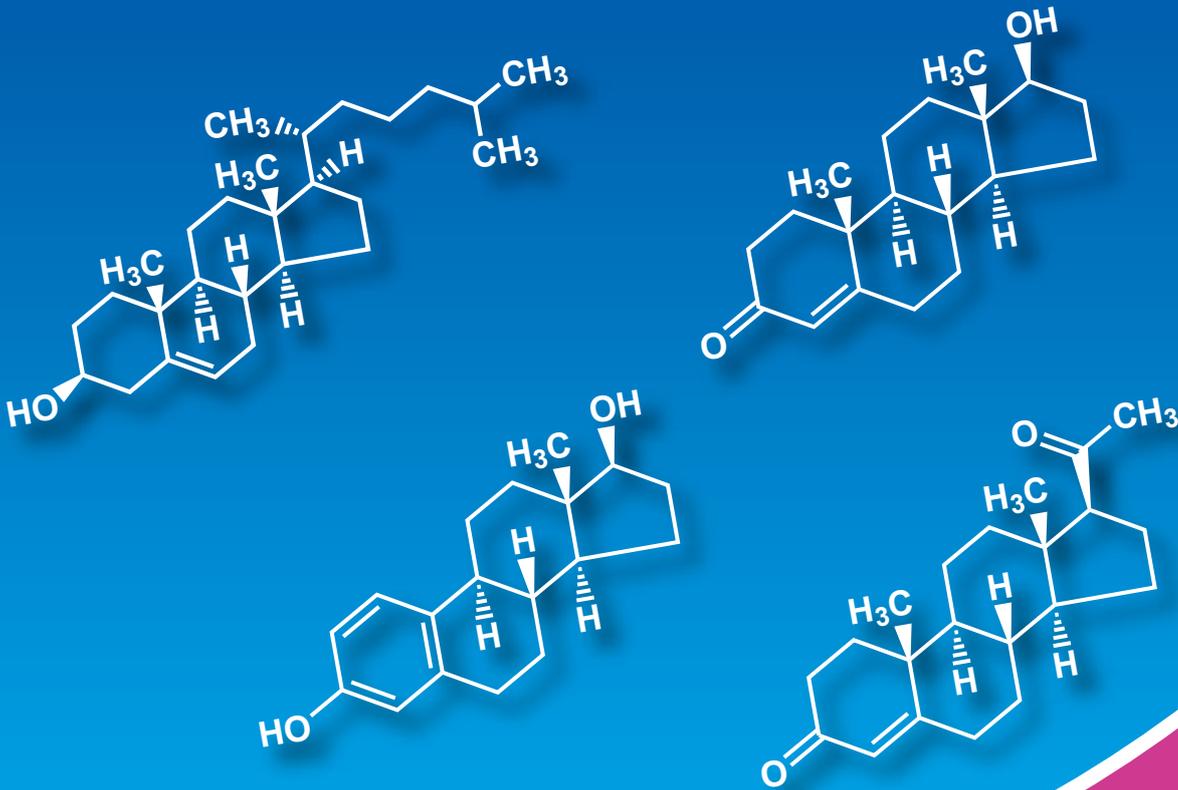


Steroids



Estranes

Androstanes

Pregnanes

Cholanes

Cholestanes

Phytosteroids

Steroid Glycosides

Steroids

Steroids are compounds consisted of four fused rings, for example, the most common and best known steroid in humans, cholesterol. In animals, steroids are biosynthesized from lanosterol and are widely distributed. The distinctive feature in steroids is lack of methyl group at C-4 position as compared to terpenes. In this section, we have classified steroids into five basic categories based upon their chemical composition (Fig.1).

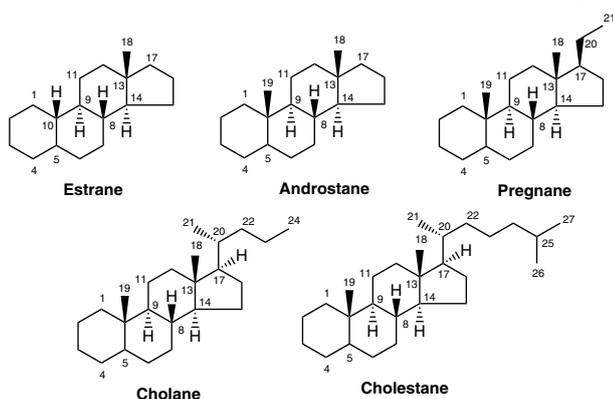


Figure 1. Typical chemical structure of steroids

● Steroid Hormones: Estranes, Androstanes, Pregnanes

Certain kinds of steroids like estrogens, androstanes and pregnanes can act as hormones, their activities being closely related to their structures (Table 1). Pregnane-type steroids can be classified into corticoids and progestogens based on their bioactivities. Their classification and the typical compounds in each category are illustrated as follows:

Hormones	Synonym	Typical Compound	Structure
Estrogen	Female Sex Hormone	Estradiol	Estrane Type
Androgen	Male Sex Hormone	Testosterone	Androstane Type
Corticoid	Adrenocorticotropic Hormone	Cortisone	Pregnane Type 
Progestogen	Gestagene	Progesterone	Pregnane Type 

Table 1. Classification of steroid hormones

Estrogens: Estrogens function as the primary female sex hormone and in combination with synthetic progestogens can be used as oral contraceptives to suppress ovulation. Recently, it is also reported that they are effective for the prevention of osteoporosis, heart attacks and Alzheimer's disease in women.

Androgens: Testosterone is not only the principal and most well known male sex hormone but is also known to exert anabolic effects. This is also the main reason why some of them have been banned from use as bone density enhancers and muscle-building drugs by several sports organizations. They are also the intermediates of estrogen biosynthetic pathway or rather the precursors of all estrogens.

Progestogens: The only naturally occurring progestogen, i.e., progesterone, exhibits antioviulatory action. Based on its structure, derivatives of 19-nortestosterone were synthesized and can be used as oral contraceptives.

Corticoids: Synthetic corticoids such as dexamethasone and prednisolone find clinical use as anti-inflammatory agents. They are synthetically developed based on the structure of cortisone, a natural corticoid.

WARNING

Some of the steroid hormones may cause serious physiological actions. To avoid inhalation and contacting with skin, wear protective goggles, mask and eyeglasses when handling. Sufficient caution should be taken, when using these compounds, from the opening up to the disposal of the reagents.

● Bile Acids: Cholanes

Cholane type steroids are predominantly found in the bile. Cholic acid and its derivatives exist in bile as the major component as conjugates of glycine and taurine. Since conjugated cholates are amphiphilic, they assist in the digestion and absorption of lipids in small intestine. This characteristic is also exploited also in its use as a surfactant.

● Cholesterol: Cholestanes

Cholesterol possesses a cholestane-type skeleton and in conjugation with fatty acids, it forms the main component of cell membranes in animals and microorganisms. These cholesterol conjugates establish and maintain proper membrane permeability. In addition, it is a precursor of steroids as mentioned above and also exists in its liberated form in organisms.

● Phytosteroids, Steroid Glycosides, Other Steroids

Steroids of plant origin have different biosynthetic pathways: they are synthesized from cycloartenol. They possess structural features distinct from animal steroids, for instance, a characteristic alkyl side-chain at C-24. Steroid glycosides and their aglycones are also listed in this section.

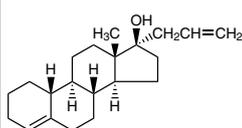
All TCI's chemicals are for testing or research purposes only.

Reference

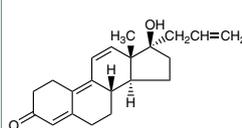
P. M. Dewick, in *Medicinal Natural Products*, 3rd ed., John Wiley & Sons, Chichester, **2009**, pp. 247-298.

Estranes

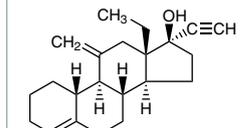
A2570 1g

Allylestrenol
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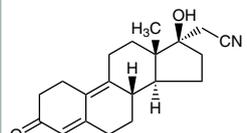
A2892 200mg 1g

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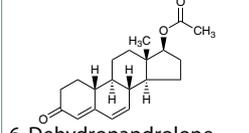
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Desogestrel
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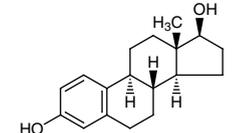
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Dienogest
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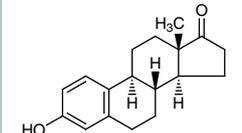
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6-Dehydronandrolone
Acetate
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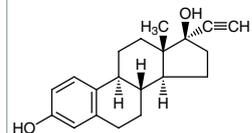
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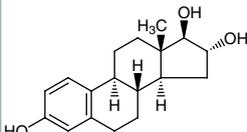
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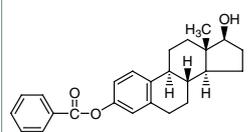
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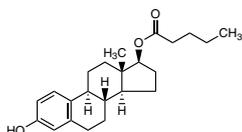
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Estriol
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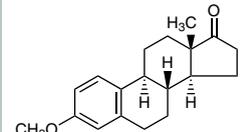
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Estradiol Benzoate
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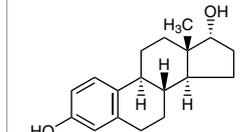
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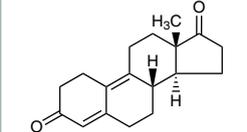
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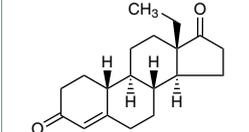
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α-Estradiol
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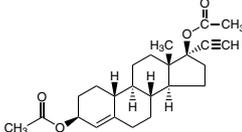
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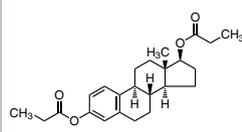
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Ethylgonendione
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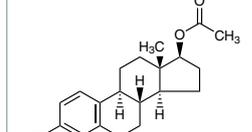
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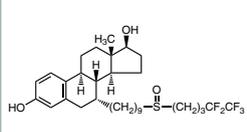
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Estradiol Dipropionate
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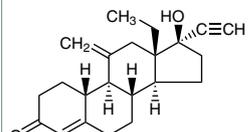
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β-Estradiol 17-Acetate
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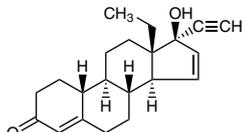
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Fulvestrant
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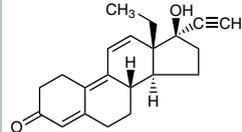
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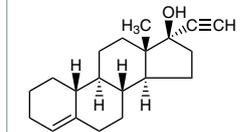
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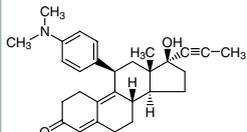
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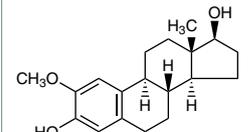
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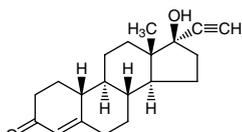
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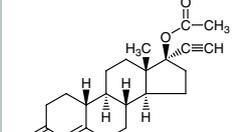
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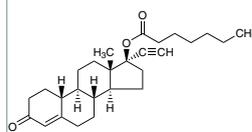
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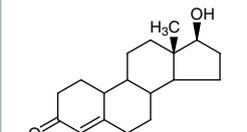
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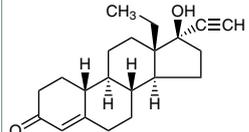
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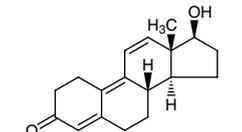
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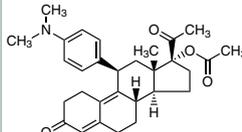
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(-)-Norgestrel
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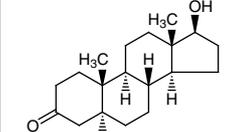
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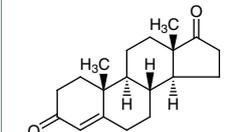
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Androstanes

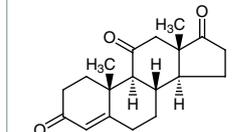
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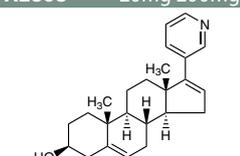
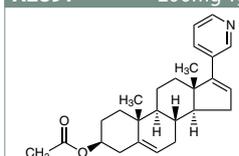
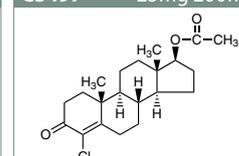
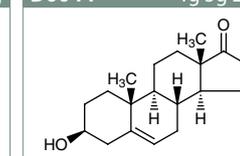
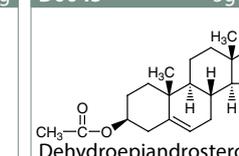
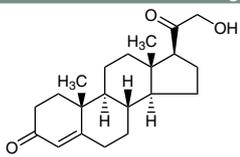
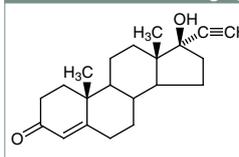
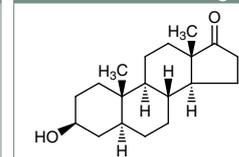
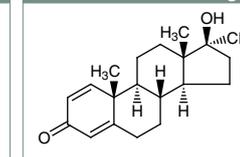
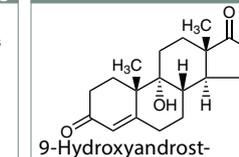
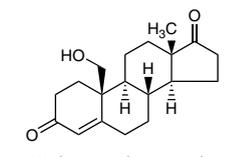
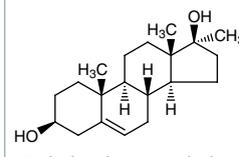
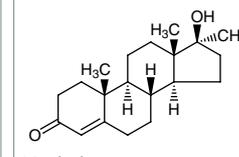
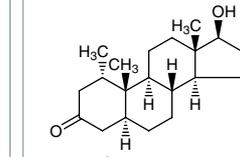
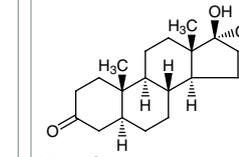
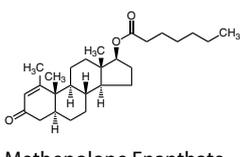
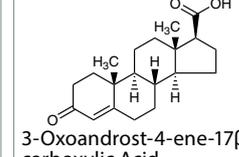
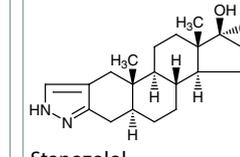
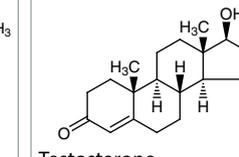
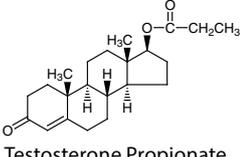
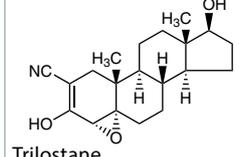
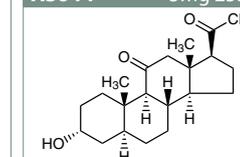
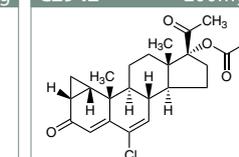
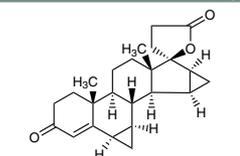
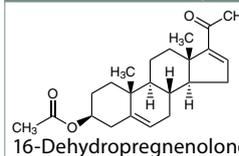
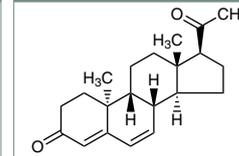
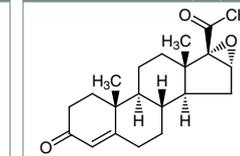
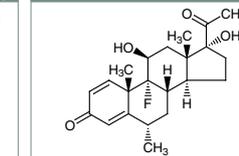
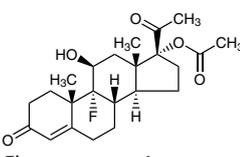
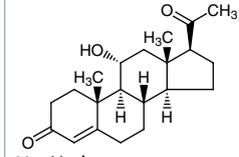
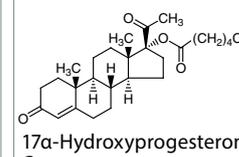
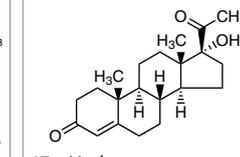
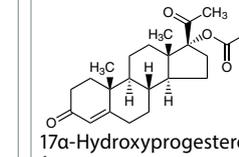
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CAS RN: 521-18-6

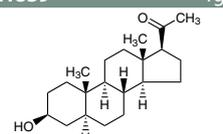
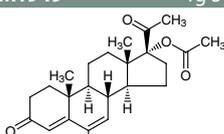
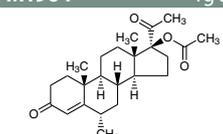
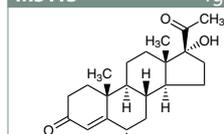
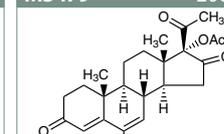
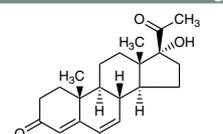
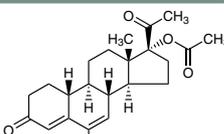
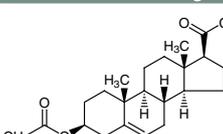
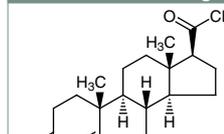
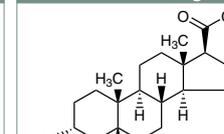
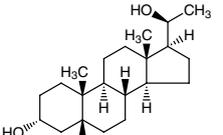
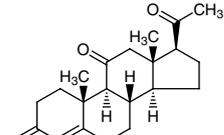
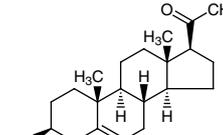
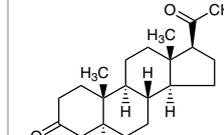
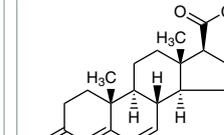
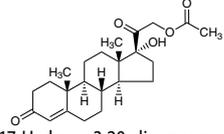
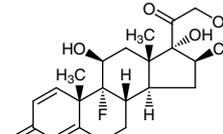
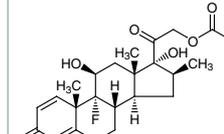
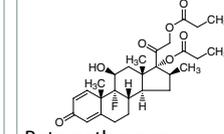
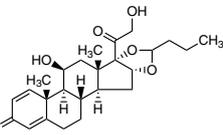
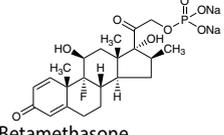
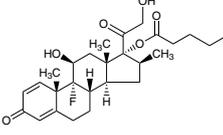
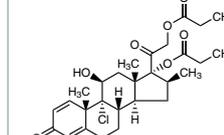
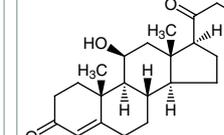
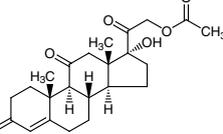
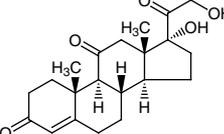
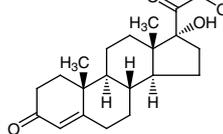
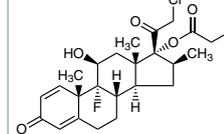
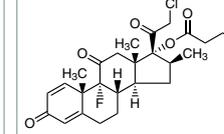
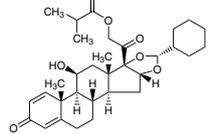
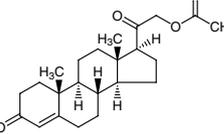
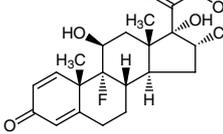
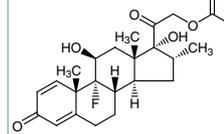
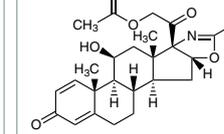
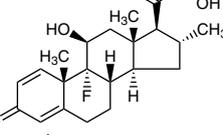
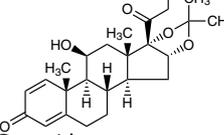
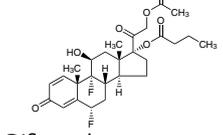
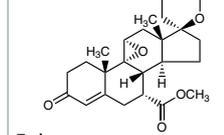
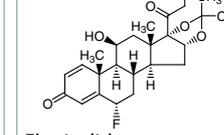
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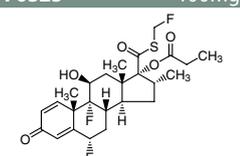
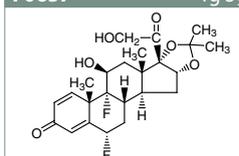
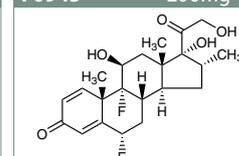
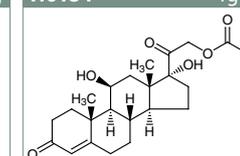
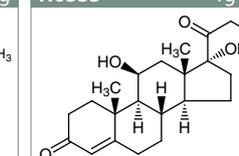
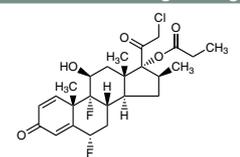
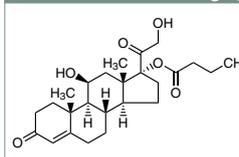
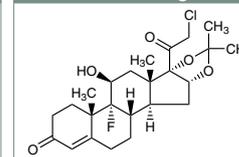
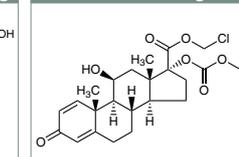
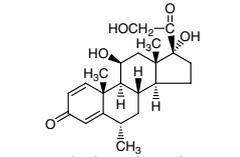
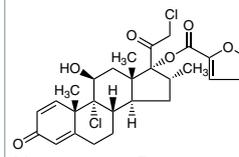
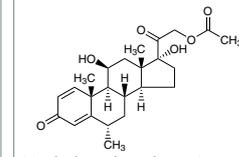
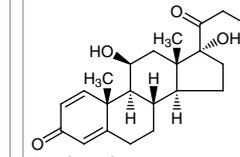
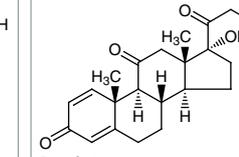
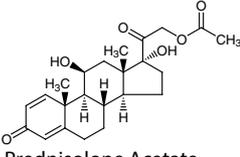
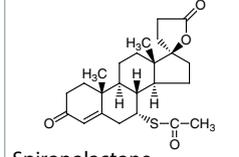
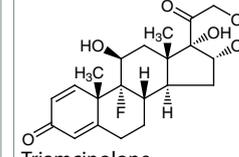
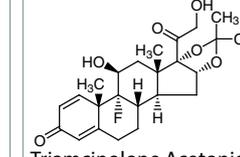
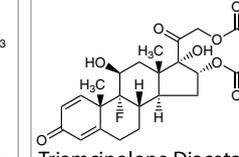
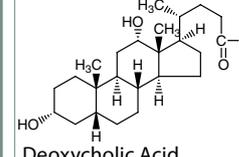
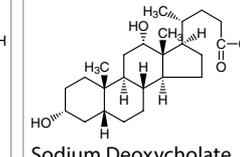
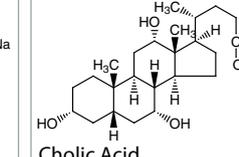
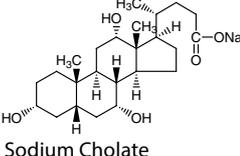
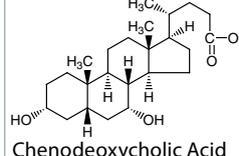
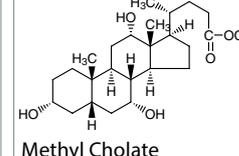
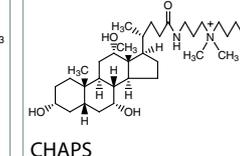
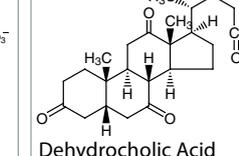
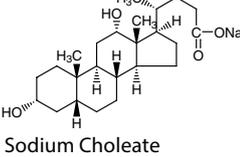
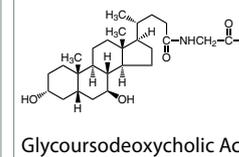
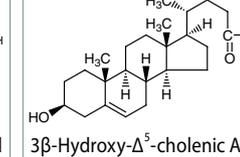
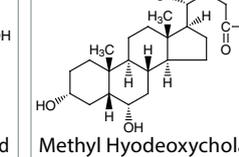
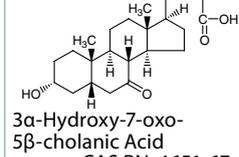
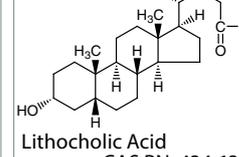
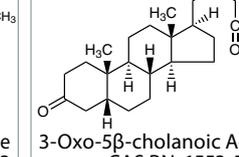
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CAS RN: 63-05-8

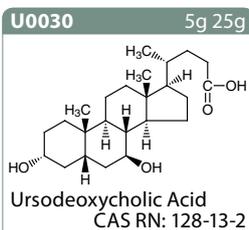
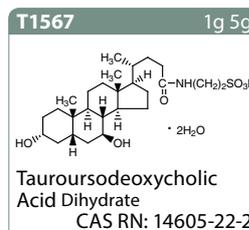
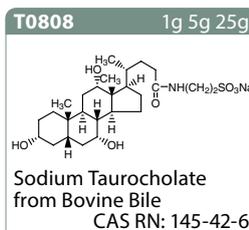
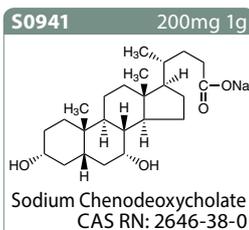
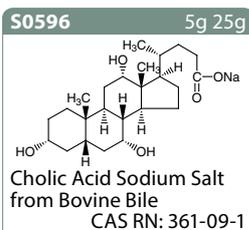
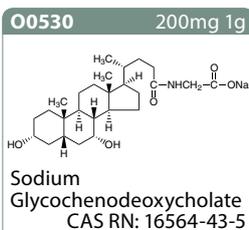
A1397 1g

Adrenosterone
CAS RN: 382-45-6

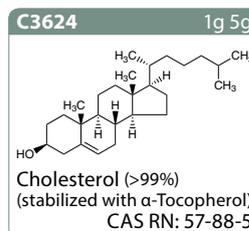
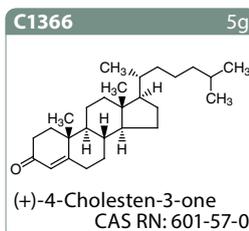
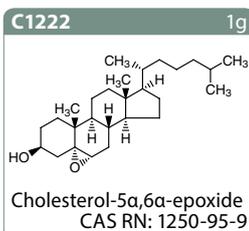
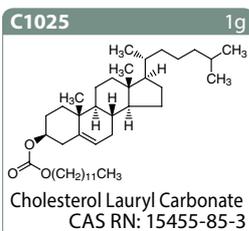
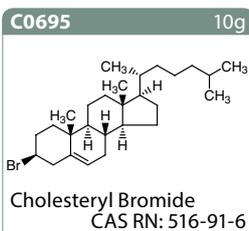
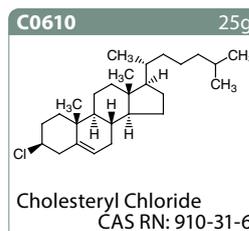
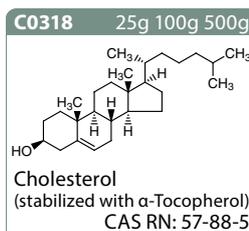
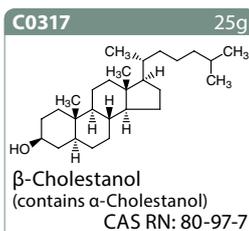
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<p>D6119 20mg</p>  <p>21-Hydroxyprogesterone CAS RN: 64-85-7</p>	<p>E0040 1g 5g</p>  <p>Ethisterone CAS RN: 434-03-7</p>	<p>E0374 1g 5g</p>  <p>Epiandrosterone CAS RN: 481-29-8</p>	<p>H1193 1g 5g</p>  <p>Dianabol CAS RN: 72-63-9</p>	<p>H1815 1g</p>  <p>9-Hydroxyandrost-4-ene-3,17-dione CAS RN: 560-62-3</p>
<p>H1908 1g 5g</p>  <p>19-Hydroxyandrostenedione CAS RN: 510-64-5</p>	<p>M0146 1g 25g</p>  <p>Methylandrostenediol CAS RN: 521-10-8</p>	<p>M0435 1g 5g</p>  <p>Methyltestosterone CAS RN: 58-18-4</p>	<p>M1800 1g</p>  <p>Mesterolone CAS RN: 1424-00-6</p>	<p>M1801 1g 5g</p>  <p>Mestaline CAS RN: 521-11-9</p>
<p>M3092 200mg 1g</p>  <p>Methenolone Enanthate CAS RN: 303-42-4</p>	<p>M3121 1g 5g</p>  <p>6-Methyleneandrost-4-ene-3,17-dione CAS RN: 19457-55-7</p>	<p>O0652 1g 5g</p>  <p>3-Oxoandrost-4-ene-17β-carboxylic Acid CAS RN: 302-97-6</p>	<p>S0530 1g 5g</p>  <p>Stanozolol CAS RN: 10418-03-8</p>	<p>T0027 1g 10g</p>  <p>Testosterone CAS RN: 58-22-0</p>
<p>T0028 5g 25g</p>  <p>Testosterone Propionate CAS RN: 57-85-2</p>	<p>T4049 200mg 1g</p>  <p>Trilostane CAS RN: 13647-35-3</p>	<p>Pregnanes</p>		
<p>Progestogen</p>		<p>A3644 5mg 25mg</p>  <p>Alphaxalone CAS RN: 23930-19-0</p>	<p>C2942 200mg 1g</p>  <p>Cyproterone Acetate CAS RN: 427-51-0</p>	
<p>D4209 200mg</p>  <p>Drospirenone CAS RN: 67392-87-4</p>	<p>D4687 5g 25g</p>  <p>16-Dehydropregnenolone Acetate CAS RN: 979-02-2</p>	<p>D6262 250mg</p>  <p>Dydrogesterone CAS RN: 152-62-5</p>	<p>E0198 1g 5g 25g</p>  <p>16,17-Epoxyprogesterone CAS RN: 1097-51-4</p>	<p>F0414 1g</p>  <p>Fluorometholone CAS RN: 426-13-1</p>
<p>F1326 100mg 1g</p>  <p>Fluorogestone Acetate CAS RN: 2529-45-5</p>	<p>H0498 100mg 1g</p>  <p>11α-Hydroxyprogesterone CAS RN: 80-75-1</p>	<p>H0994 5g</p>  <p>17α-Hydroxyprogesterone Caproate CAS RN: 630-56-8</p>	<p>H1250 5g 25g</p>  <p>17α-Hydroxyprogesterone CAS RN: 68-96-2</p>	<p>H1527 1g 5g</p>  <p>17α-Hydroxyprogesterone Acetate CAS RN: 302-23-8</p>

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<p>M3708 1g</p>  <p>Megestrol CAS RN: 3562-63-8</p>	<p>N1277 50mg</p>  <p>Nomegestrol Acetate CAS RN: 58652-20-3</p>	<p>P0477 1g 10g</p>  <p>Pregnenolone Acetate CAS RN: 1778-02-5</p>	<p>P0478 5g 25g</p>  <p>Progesterone CAS RN: 57-83-0</p>	<p>P3084 5mg 25mg</p>  <p>5β-Pregnan-3α-ol-20-one CAS RN: 128-20-1</p>
<p>P0678 100mg 1g</p>  <p>5β-Pregnane-3α,20α-diol CAS RN: 80-92-2</p>	<p>P0771 1g</p>  <p>4-Pregnene-3,11,20-trione CAS RN: 516-15-4</p>	<p>P0786 5g 25g</p>  <p>Pregnenolone CAS RN: 145-13-1</p>	<p>P2423 1g 5g</p>  <p>5α-Pregnane-3,20-dione CAS RN: 566-65-4</p>	<p>P2623 1g 5g</p>  <p>Δ⁴-Progesterone CAS RN: 1162-56-7</p>
Corticoids				
	<p>A3212 1g 5g</p>  <p>17-Hydroxy-3,20-dioxypregn-4-en-21-yl Acetate CAS RN: 640-87-9</p>	<p>B1837 1g 5g</p>  <p>Betamethasone CAS RN: 378-44-9</p>	<p>B3165 1g 5g</p>  <p>Betamethasone 21-Acetate CAS RN: 987-24-6</p>	<p>B3166 1g 5g</p>  <p>Betamethasone 17,21-Dipropionate CAS RN: 5593-20-4</p>
<p>B3909 200mg 1g</p>  <p>Budesonide CAS RN: 51333-22-3</p>	<p>B4110 1g</p>  <p>Betamethasone 21-Phosphate Disodium Salt CAS RN: 151-73-5</p>	<p>B4157 1g 5g</p>  <p>Betamethasone Valerate CAS RN: 2152-44-5</p>	<p>B4464 1g 5g</p>  <p>Beclomethasone Dipropionate CAS RN: 5534-09-8</p>	<p>C0388 100mg 1g 5g</p>  <p>Corticosterone CAS RN: 50-22-6</p>
<p>C0389 1g 5g 25g</p>  <p>Cortisone Acetate CAS RN: 50-04-4</p>	<p>C1317 1g</p>  <p>Cortisone CAS RN: 53-06-5</p>	<p>C1478 1g</p>  <p>Cortisolone CAS RN: 152-58-9</p>	<p>C2612 1g 5g</p>  <p>Clobetasol 17-Propionate CAS RN: 25122-46-7</p>	<p>C3510 50mg 250mg 1g</p>  <p>Clobetasone Butyrate CAS RN: 25122-57-0</p>
<p>C3701 10mg 50mg</p>  <p>Ciclesonide CAS RN: 126544-47-6</p>	<p>D0047 1g</p>  <p>Doca CAS RN: 56-47-3</p>	<p>D1961 1g</p>  <p>Dexamethasone CAS RN: 50-02-2</p>	<p>D3628 1g 5g</p>  <p>Dexamethasone 21-Acetate CAS RN: 1177-87-3</p>	<p>D4523 1g</p>  <p>Deflazacort CAS RN: 14484-47-0</p>
<p>D5515 50mg 250mg</p>  <p>Desoximetasone CAS RN: 382-67-2</p>	<p>D5578 250mg 1g 5g</p>  <p>Desonide CAS RN: 638-94-8</p>	<p>D5579 50mg 250mg</p>  <p>Difluprednate CAS RN: 23674-86-4</p>	<p>E0905 200mg</p>  <p>Eplerenone CAS RN: 107724-20-9</p>	<p>F0437 1g</p>  <p>Flunisolide CAS RN: 3385-03-3</p>

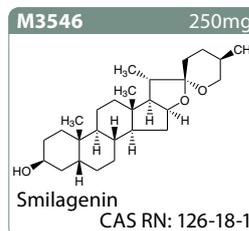
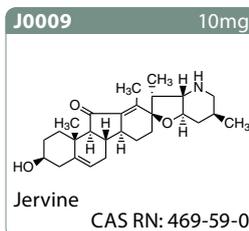
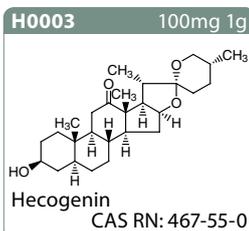
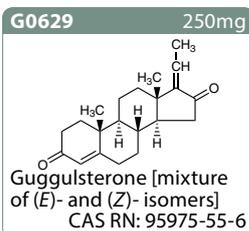
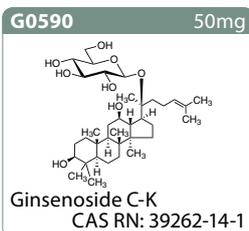
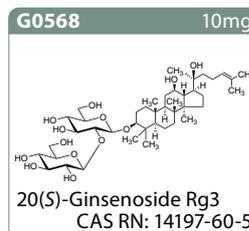
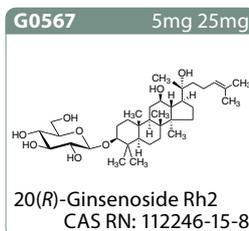
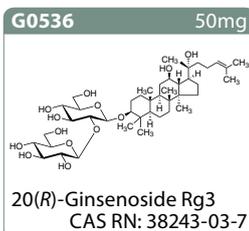
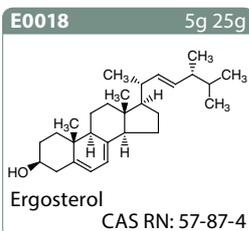
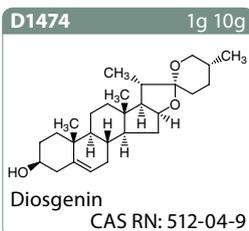
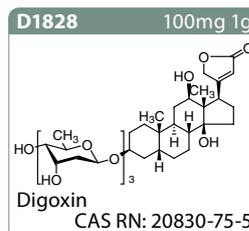
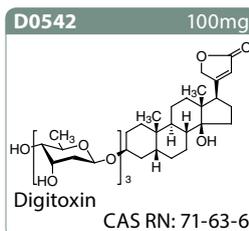
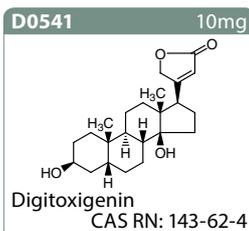
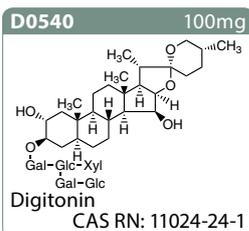
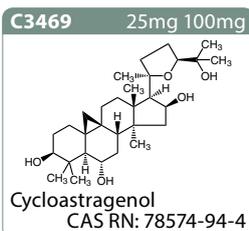
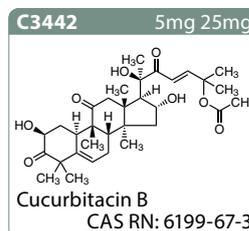
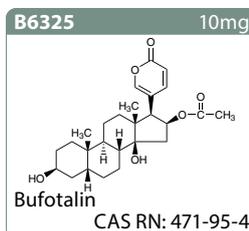
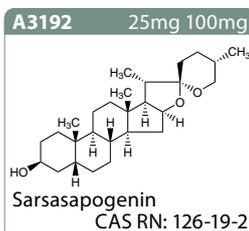
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<p>H1457 25mg 100mg</p>  <p>Halobetasol Propionate CAS RN: 66852-54-8</p>	<p>H1506 200mg 1g</p>  <p>Hydrocortisone 17-Butyrate CAS RN: 13609-67-1</p>	<p>H1672 25mg 100mg</p>  <p>Halcinonide CAS RN: 3093-35-4</p>	<p>H1884 250mg</p>  <p>Hydrocortisone 21-Hemisuccinate CAS RN: 2203-97-6</p>	<p>L0327 50mg 250mg</p>  <p>Loteprednol Etabonate CAS RN: 82034-46-6</p>
<p>M1665 1g 5g</p>  <p>6α-Methylprednisolone CAS RN: 83-43-2</p>	<p>M2354 200mg 1g</p>  <p>Mometasone Furoate CAS RN: 83919-23-7</p>	<p>M2635 250mg 1g</p>  <p>Methylprednisolone Acetate CAS RN: 53-36-1</p>	<p>P0637 1g 5g 25g</p>  <p>Prednisolone CAS RN: 50-24-8</p>	<p>P1276 5g 25g</p>  <p>Prednisone CAS RN: 53-03-2</p>
<p>P1283 5g</p>  <p>Prednisolone Acetate CAS RN: 52-21-1</p>	<p>S0260 1g 5g</p>  <p>Spirolactone CAS RN: 52-01-7</p>	<p>T2303 1g</p>  <p>Triamcinolone CAS RN: 124-94-7</p>	<p>T2308 1g 5g</p>  <p>Triamcinolone Acetonide CAS RN: 76-25-5</p>	<p>T3676 50mg 250mg</p>  <p>Triamcinolone Diacetate CAS RN: 67-78-7</p>
<h2>Cholanes</h2>				
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<p>C1412 25g</p>  <p>Methyl Cholate CAS RN: 1448-36-8</p>	<p>C1578 1g 5g</p>  <p>CHAPS CAS RN: 75621-03-3</p>	<p>D0042 25g 250g</p>  <p>Dehydrocholic Acid CAS RN: 81-23-2</p>	<p>D1820 25g</p>  <p>Sodium Choleate CAS RN: 302-95-4</p>	<p>G0207 1g 5g</p>  <p>Sodium Glycocholate Hydrate CAS RN: 338950-81-5</p>
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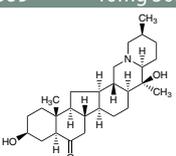
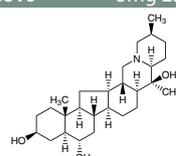
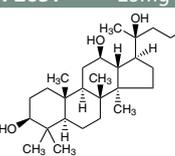
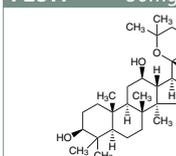
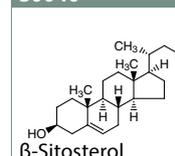
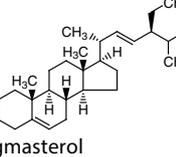
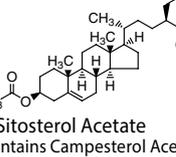
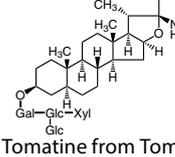
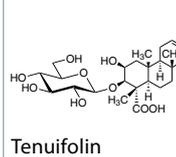
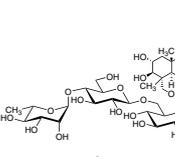
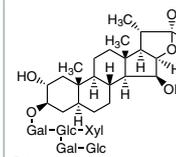
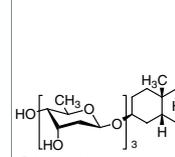
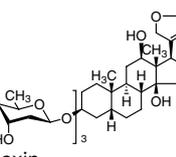
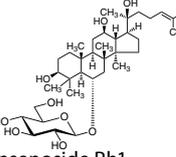
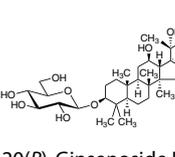
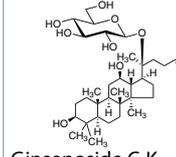
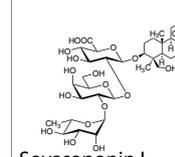
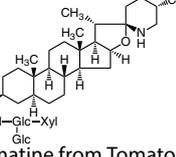
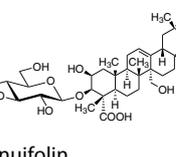
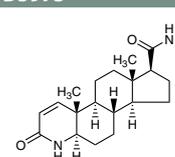
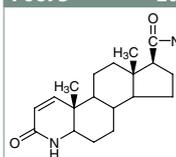
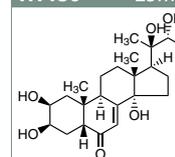
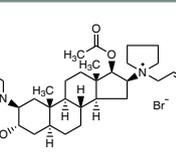
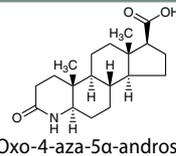
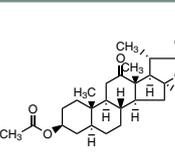
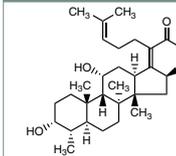
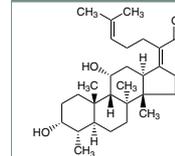


Cholestanes



Phytosteroids



<p>P2609 10mg 50mg</p>  <p>Peiminine CAS RN: 18059-10-4</p>	<p>P2610 5mg 25mg</p>  <p>Peimine CAS RN: 23496-41-5</p>	<p>P2651 25mg 100mg</p>  <p>(20S)-Protopanaxadiol CAS RN: 30636-90-9</p>	<p>P2811 50mg 250mg</p>  <p>Panaxadiol CAS RN: 19666-76-3</p>	<p>S0040 25g</p>  <p>β-Sitosterol (contains Campesterol) CAS RN: 83-46-5</p>
<p>S0088 1g 5g 25g</p>  <p>Stigmasterol CAS RN: 83-48-7</p>	<p>S0221 1g 5g</p>  <p>β-Sitosterol Acetate (contains Campesterol Acetate) CAS RN: 915-05-9</p>	<p>T3636 100mg</p>  <p>Tomatine from Tomato CAS RN: 17406-45-0</p>	<p>T3736 5mg 25mg</p>  <p>Tenuifolin CAS RN: 20183-47-5</p>	
<h2>Steroid Glycosides</h2>				
		<p>A3178 250mg</p>  <p>Asiaticoside CAS RN: 16830-15-2</p>	<p>D0540 100mg</p>  <p>Digitonin CAS RN: 11024-24-1</p>	<p>D0542 100mg</p>  <p>Digitoxin CAS RN: 71-63-6</p>
<p>D1828 100mg 1g</p>  <p>Digoxin CAS RN: 20830-75-5</p>	<p>G0552 100mg</p>  <p>Ginsenoside Rh1 CAS RN: 63223-86-9</p>	<p>G0567 5mg 25mg</p>  <p>20(R)-Ginsenoside Rh2 CAS RN: 112246-15-8</p>	<p>G0590 50mg</p>  <p>Ginsenoside C-K CAS RN: 39262-14-1</p>	<p>O0587 10mg</p>  <p>Soyasaponin I CAS RN: 51330-27-9</p>
<p>T3636 100mg</p>  <p>Tomatine from Tomato CAS RN: 17406-45-0</p>	<p>T3736 5mg 25mg</p>  <p>Tenuifolin CAS RN: 20183-47-5</p>			
<h2>Other Steroids</h2>				
		<p>D5973 500mg</p>  <p>Dutasteride CAS RN: 164656-23-9</p>	<p>F0675 200mg 1g</p>  <p>Finasteride CAS RN: 98319-26-7</p>	<p>H1480 25mg 100mg</p>  <p>20-Hydroxyecdysone CAS RN: 5289-74-7</p>
<p>R0099 100mg</p>  <p>Rocuronium Bromide CAS RN: 119302-91-9</p>	<p>O0514 1g 5g</p>  <p>3-Oxo-4-aza-5α-androstan-17β-carboxylic Acid CAS RN: 103335-55-3</p>	<p>H0537 1g 5g</p>  <p>Hecogenin Acetate CAS RN: 915-35-5</p>	<p>F1007 1g 5g</p>  <p>Fusidic Acid CAS RN: 6990-06-3</p>	<p>O0613 1g 5g</p>  <p>Fusidate Sodium CAS RN: 751-94-0</p>

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