



# Reference standards catalogue

466 compounds - impurity, metabolite and isotope-labelled standards

Certificate of analysis issued for every lot. Quotations on enquiry.

How to use this catalogue

1. Search the PDF (Ctrl+F) by CAS number, product name or catalogue number.
2. The CAS number is the unambiguous identifier; compendial letters (EP/USP) can differ between pharmacopoeias for the same compound.
3. Pack sizes are listed per item; lead time and documentation are confirmed with the quotation for that item.

This catalogue carries no prices. CATO does not publish a price list: availability, pack size, lead time and documentation are quoted per enquiry.

Batch certificates, safety data sheets and product pages:

[www.cato-standard.com](http://www.cato-standard.com)

## Reference standards catalogue - 466 compounds

| Cat. no.      | CAS       | Compound                                        | Formula          | MW         | Pack sizes              |
|---------------|-----------|-------------------------------------------------|------------------|------------|-------------------------|
| CCHM701199    | 52-39-1   | Aldosterone                                     | C21H28O5         | 360.44     | 100mg, 10mg, 1mg, 5...  |
| CCHM703800    | 53-05-4   | Tetrahydro Cortisone                            | C21H32O5         | 364.48     | 10mg, 25mg, 50mg, 5...  |
| CCAD301003    | 53-33-8   | Paramethasone                                   | C22H29FO5        | 392.46     | 100mg, 10mg, 1mg, 2...  |
| C4X-18453     | 66-86-4   | Neomycin EP Impurity C                          | C23H46N6O13      | 614.64     | 100mg, 10mg, 25mg, ...  |
| CWLT600001    | 75-34-3   | 1,1-Dichloroethane                              | C2H4Cl2          | 98.96      | 0.5mL, 5mL              |
| C4X-17795     | 115-61-7  | Ergocalciferol EP Impurity E                    | C28H44O          | 396.65     | 100mg, 10mg, 20mg, ...  |
| CP104846      | 115-71-9  | (+)-alpha-Santalol                              | C15H24O          | 220.35     | 100mg, 10g, 10mg, 1...  |
| CCPE901658    | 130-01-8  | Senecionine                                     | C18H25NO5        | 335.39     | 100mg, 10mg, 1mg, 2...  |
| CCPE901336    | 134-01-0  | Peonidin Chloride                               | C16H13O6 Cl      | 301.27 ... | 100mg, 10mg, 1mg, 2...  |
| CCPE901356    | 134-04-3  | Pelargonidin chloride                           | C15H11O5 Cl      | 271.24 ... | 10mg, 1mg, 20mg, 25...  |
| CCAD300712    | 149-29-1  | Patulin                                         | C7H6O4           | 154.12     | 100mg, 10mg, 1mL, 1...  |
| CCPD100281    | 301-12-2  | Demeton-S-Methyl Sulfoxide                      | C6H15O4PS2       | 246.28     | 100mg, 10mg, 1g, 2.5... |
| CCHM700855    | 303-47-9  | Ochratoxin A                                    | C20H18ClNO6      | 403.81     | 100mg, 10mg, 150mg...   |
| C4X-137617    | 303-95-7  | Ubidecarenone EP Impurity B                     | C44H66O4         | 658.99     | 100mg, 10mg, 20mg, ...  |
| CCHM700967    | 335-77-3  | Perfluorodecane Sulfonic Acid                   | C10HF21O3S       | 600.14     | 0.9mL, 1.5mL, 100mg...  |
| LCEM501938    | 423-41-6  | Perfluoropropanesulfonic acid                   | C3HF7O3S         | 250.09     | 1mL                     |
| CCPE901975    | 465-18-9  | Polyporenic Acid C                              | C31H46O4         | 482.69     | 10mg, 20mg, 5mg         |
| CCPE901445    | 469-38-5  | Cycloartenol                                    | C30H50O          | 426.72     | 100mg, 10mg, 1mg, 2...  |
| CCAD301208    | 474-60-2  | Campestanol                                     | C28H50O          | 402.70     | 100mg, 10mg, 1g, 1m...  |
| CCPE901415    | 474-67-9  | Brassicasterol                                  | C28H46O          | 398.66     | 100mg, 10mg, 1g, 1m...  |
| C4X-19485     | 479-00-5  | Ergometrine EP Impurity F                       | C19H23N3O2       | 325.40     | 100mg, 10mg, 150mg...   |
| CCPE901748    | 479-61-8  | Chlorophyll A                                   | C55H72N4O5 Mg    | 869.18 ... | 100mg, 15mg, 1mg, 5...  |
| CCFD200517    | 490-23-3  | D-beta-Tocotrienol                              | C28H42O2         | 410.63     | 100mg, 10mg, 1mg, 5...  |
| CCPE902099    | 495-60-3  | alpha-Zingiberene                               | C15H24           | 204.35     | 0.5mg, 100mg, 20mg,...  |
| CCPE902117    | 511-08-0  | Ergocristine                                    | C35H39N5O5       | 609.71     | 1mg                     |
| C4X-13611     | 511-09-1  | Bromocriptine EP Impurity B                     | C32H41N5O5       | 575.70     | 0.5mg, 100g, 100mg, ... |
| CCFD200494    | 511-28-4  | Vitamin D4                                      | C28H46O          | 398.66     | 100mg, 10mg, 1mg, 2...  |
| CCPE901996    | 519-62-0  | Chlorophyll B                                   | C55H70MgN4O6     | 907.47     | 0.5mg, 10mg, 1mg, 2.... |
| CCPE901354    | 528-53-0  | Delphinidin Chloride                            | C15H11O7 Cl      | 303.24 ... | 100mg, 10mg, 1mg, 2...  |
| CCPE901342    | 542-40-5  | Norbixin                                        | C24H28O4         | 380.48     | 100mg, 10mg, 1mg, 2...  |
| CCPE902188    | 547-17-1  | Lutein dipalmitate                              | C72H116O4        | 1045.69    | 1mg, 20mg               |
| CWLT600634    | 561-41-1  | alpha,alpha-Bis[4-(dimethylamino)phenyl]-4-(... | C24H29N3O        | 375.51     | 1mg, 2.5mg, 25mg        |
| CS357912      | 564-36-3  | Ergocornine                                     | C31H39N5O5       | 561.67     | 0.5mg, 1mg              |
| LOTI111654-ME | 597-64-8  | Tetraethyltin                                   | C8H20Sn          | 234.95     | 1mL                     |
| C1806426      | 639-81-6  | Ergotaminine                                    | C33H35N5O5       | 581.66     | 0.125mg, 100mg, 15...   |
| CCPE901358    | 643-84-5  | Malvidin Chloride                               | C17H15O7 Cl      | 331.30 ... | 100mg, 10mg, 1mg, 2...  |
| CCAD302071    | 914-00-1  | Methacycline                                    | C22H22N2O8       | 442.42     | 100mg, 10mg, 120mg...   |
| C3D-5655      | 965-93-5  | Methyltrienolone                                | C19H24O2         | 284.39     | 100mg, 10mg, 20mg, ...  |
| C1827969      | 991-01-5  | Isodesmosine Citrate Salt                       | C24H40N5O8 3*... | 526.60 ... | 100mg, 10mg, 1mg, 5...  |
| CCHM704330    | 992-78-9  | Ubiquinol                                       | C59H92O4         | 865.36     | 1mg, 250mg, 25mg        |
| CCFD200340    | 1162-65-8 | Aflatoxin B1                                    | C17H12O6         | 312.27     | 100mg, 10mg, 1g, 1m...  |
| CCFD200342    | 1165-39-5 | Aflatoxin G1                                    | C17H12O7         | 328.27     | 100mg, 10mg, 1mg, 2...  |
| C4X-217126    | 1188-64-3 | Glycero Impurity 26                             | C3H10O9P2        | 252.05     | 10mg, 20mg, 25mg, 5...  |
| CCHM703397    | 1320-07-6 | Acid Orange 24                                  | C20H17N4O5S Na   | 425.44 ... | 100mg, 10mg, 1mg, 2...  |

## Reference standards catalogue - 466 compounds

| Cat. no.   | CAS        | Compound                                           | Formula          | MW         | Pack sizes             |
|------------|------------|----------------------------------------------------|------------------|------------|------------------------|
| C4X-184410 | 1405-32-9  | Amphotericin B EP Impurity A                       | C47H75NO17       | 926.09     | 100mg, 10mg, 25mg, ... |
| CCPE901355 | 1429-30-7  | Petunidin chloride                                 | C16H13O7 Cl      | 317.27 ... | 100mg, 10mg, 1mg, 2... |
| C4X-29761  | 1850-88-0  | N-Nitroso Pseudoephedrine (N-Nitroso Ephed...      | C10H14N2O2       | 194.23     | 100mg, 10mg, 20mg, ... |
| CS259070   | 1895-26-7  | Bis[2-(perfluorodecyl)ethyl] Phosphate             | C24H9F42O4P      | 1190.23    | 10mg, 5mg              |
| CCHM701247 | 2052-63-3  | 13-cis-Retinol                                     | C20H30O          | 286.45     | 10mg, 1mL, 1mg         |
| C4X-217125 | 2075-06-1  | Glycerol Impurity 25                               | C3H10O9P2        | 252.05     | 100mg, 20mg, 25mg, ... |
| CCFD201529 | 2270-40-8  | Diacetoxyscirpenol                                 | C19H26O7         | 366.41     | 1.2ml, 1mg, 50mg, 5mg  |
| CCHM703303 | 2355-31-9  | N-Methylperfluoro-1-octanesulfonamidoacetic ...    | C11H6F17NO4S     | 571.21     | 10mg                   |
| CCHM704702 | 2364-23-0  | Clerosterol                                        | C29H48O          | 412.69     | 10mg, 5mg              |
| C4X-18193  | 2535-20-8  | Riboflavin EP Impurity C                           | C13H18N4O6       | 326.31     | 0.5mg, 100mg, 10mg,... |
| C4X-137331 | 2591-98-2  | Tryptophan impurity 31                             | C10H9NO          | 159.18     | 100mg, 10mg, 1g, 25... |
| CCHM704901 | 2706-91-4  | Perfluoropentanesulfonic acid                      | C5HF11O3S        | 350.11     | 10mg, 25mg             |
| C4X-218713 | 3012-64-4  | 5,6-epoxy-Vitamin A-palmitate                      | C36H60O3         | 540.86     | 100mg, 10mg, 200mg...  |
| C4X-100142 | 3225-82-9  | Erythromycin EP Impurity N                         | C21H38O7         | 402.52     | 100g, 100mg, 10mg, ... |
| C4X-19695  | 3555-80-4  | Tretinoin EP Impurity C (Isotretinoin EP Impuri... | C20H28O2         | 300.44     | 100mg, 10mg, 20mg, ... |
| CWLT600159 | 3860-63-7  | Disperse Blue 26                                   | C16H14N2O4       | 298.29     | 100mg, 10mg, 25mg, ... |
| CCAD301415 | 3922-90-5  | Oleandomycin                                       | C35H61NO12       | 687.86     | 10mg, 1mg, 20mg, 5mg   |
| CCHM701922 | 4084-27-9  | 3-Deoxyglucosone                                   | C6H10O5          | 162.14     | 100mg, 10mg, 25mg, ... |
| CCHM700902 | 4368-28-9  | Tetrodotoxin                                       | C11H17N3O8       | 319.27     | 10mg, 1mg              |
| C4X-19691  | 5352-74-9  | Tretinoin EP Impurity B (9,13-di-cis-Retinoic A... | C20H28O2         | 300.44     | 100mg, 10mg, 20mg, ... |
| CCHM704588 | 5746-04-3  | N <sup>?</sup> -(1-Carboxymethyl)-L-lysine         | C8H16N2O4        | 204.22     | 10mg, 1mg, 20mg, 5mg   |
| C4X-167812 | 5817-39-0  | Levothyroxine EP Impurity K                        | C15H12I3NO4      | 650.97     | 1.2mL, 100mg, 10mg,... |
| CCFD201186 | 6795-23-9  | Aflatoxin M1                                       | C17H12O7         | 328.27     | 0.1mg, 100mg, 10mg,... |
| C4X-14118  | 6877-25-4  | Colchicine Impurity 8                              | C21H21NO6        | 383.39     | 10mg, 20mg, 25mg, 5... |
| CCAD300673 | 6885-57-0  | Aflatoxin M2                                       | C17H14O7         | 330.29     | 0.1mg, 10mg, 1g, 1m... |
| CCFD200341 | 7220-81-7  | Aflatoxin B2                                       | C17H14O6         | 314.29     | 100mg, 10mg, 1mg, 2... |
| CCFD200343 | 7241-98-7  | Aflatoxin G2                                       | C17H14O7         | 330.29     | 100g, 100mg, 10mg, ... |
| CCFD201215 | 7488-99-5  | alpha-Carotene                                     | C40H56           | 536.87     | 10mg, 1g, 1mg, 20mg... |
| CCAD304335 | 10118-90-8 | Minocycline                                        | C23H27N3O7       | 457.48     | 100mg, 10mg, 1mg, 2... |
| CCFD201975 | 10236-58-5 | L-Selenocysteine                                   | C3H7NO2Se        | 168.05     | 10mg                   |
| C1059239   | 11003-57-9 | Desmosine                                          | C24H40N5O8       | 526.60     | 100mg, 10mg, 1mg, 5... |
| CCFD201114 | 11076-19-0 | Bongkrekic Acid                                    | C28H38O7         | 486.60     | 1mg, 5mg               |
| CCPE901376 | 11141-17-6 | Azadirachtin                                       | C35H44O16        | 720.71     | 100mg, 10mg, 20mg, ... |
| C4X-21878  | 13828-13-2 | Vitamin A EP Impurity A(Kitol Diacetate) (Mixt...  | C44H64O4         | 656.98     | 100mg, 10mg, 20mg, ... |
| CCFD200809 | 14101-61-2 | D-?-Tocotrienol                                    | C28H42O2         | 410.63     | 100mg, 10mg, 1mg, 2... |
| CCHM701465 | 14277-97-5 | Domoic Acid                                        | C15H21NO6        | 311.33     | 1mg, 5mg               |
| C4X-141410 | 14994-27-5 | Megestrol Acetate EP Impurity J                    | C24H34O4         | 386.52     | 100mg, 10mg, 200mg...  |
| C4X-187416 | 15130-04-8 | Cyanocobalamin EP Impurity G?50-methylcya...       | C64H90CoN14O1... | 1369.4     | 100mg, 10mg, 150mg...  |
| C4X-15021  | 15775-74-3 | Progesterone-d9                                    | C21H21D9O2       | 323.52     | 100mg, 10mg, 1g, 1m... |
| CCEM500910 | 16423-19-1 | (±)-Geosmin                                        | C12H22O          | 182.30     | 100mg, 10mg, 1mg, 2... |
| C4X-17793  | 16729-22-9 | Vitamin A EP Impurity C?Mixture of Z and E Is...   | C20H30O          | 286.45     | 100mg, 10mg, 20mg, ... |
| CCFD200531 | 17466-45-4 | Phalloidin                                         | C35H48N8O11S     | 788.87     | 1mg                    |
| C4X-15865  | 17592-07-3 | Cholecalciferol EP Impurity E                      | C27H44O          | 384.64     | 100mg, 10mg, 150mg...  |
| CCHM701585 | 17829-05-9 | N-Nitrosodimethylamine-d6                          | C2D6N2O          | 80.12      | 100mg, 10mg, 15mg, ... |

## Reference standards catalogue - 466 compounds

| Cat. no.   | CAS        | Compound                                      | Formula          | MW         | Pack sizes              |
|------------|------------|-----------------------------------------------|------------------|------------|-------------------------|
| CS254838   | 18418-25-2 | beta-Glycerolphosphorylcholine                | C8H20NO6P        | 257.22     | 100mg, 25mg             |
| C3D-4982   | 18472-36-1 | ?5-Avenasterol (E/Z mixture)                  | C29H48O          | 412.69     | 0.5mg, 100mg, 10mg,...  |
| CS257844   | 18772-36-6 | Eicosamethylcyclodecasiloxane                 | C20H60O10Si10    | 741.54     | 100mg, 10mg, 50mg       |
| C4X-22001  | 20744-51-8 | Deoxystreptamine-kanosaminide                 | C12H25N3O7       | 323.34     | 100mg, 10mg, 150mg...   |
| CCFD201951 | 20768-11-0 | Lactodifucotetraose                           | C24H42O19        | 634.58     | 10mg, 1mg, 25mg, 50...  |
| CCFD200530 | 21150-22-1 | beta-Amanitine                                | C39H53N9O15S     | 919.95     | 0.1mg, 0.5mg, 1mg       |
| CCFD201549 | 21150-23-2 | ?-Amanitin                                    | C39H54N10O13S    | 902.97     | 1mg                     |
| CCAD300737 | 21259-20-1 | T-2 Toxin                                     | C24H34O9         | 466.52     | 100, 100mg, 10mg, 1...  |
| C4X-19141  | 21307-05-1 | Previtamin D2 (~90%)                          | C28H44O          | 396.65     | 100mg, 10mg, 1mg, 2...  |
| CCFD201536 | 21516-68-7 | Monascin                                      | C21H26O5         | 358.43     | 10mg, 1mg, 20mg, 50...  |
| CCFD200529 | 23109-05-9 | alpha-Amanitin                                | C39H54N10O14S    | 918.97     | 0.1mg, 0.5mg, 10mg, ... |
| C4X-13763  | 24663-35-2 | Ubidecarenone Impurity 3                      | C64H98O4         | 931.46     | 100mg, 10mg, 110mg...   |
| CCAD302757 | 24730-31-2 | Surfactin                                     | C53H93N7O13      | 1036.34    | 1mg, 5mg                |
| CCFD200810 | 25612-59-3 | ?-Tocotrienol                                 | C27H40O2         | 396.61     | 100mg, 10mg, 20mg, ...  |
| C1825027   | 25876-10-2 | Gentamicin C1                                 | C21H43N5O7       | 477.60     | 100mg, 10mg, 1g, 20...  |
| C4X-148012 | 25876-11-3 | Gentamicin Impurity 12                        | C20H41N5O7       | 463.57     | 100mg, 10mg, 180mg...   |
| C4X-131672 | 26017-01-6 | Fosfomycin Impurity 72                        | C3H5O4P 2*Na     | 136.04 ... | 100mg, 10mg, 110mg...   |
| CCFD201551 | 26645-35-2 | Phallacidin                                   | C37H50N8O13S     | 846.90     | 10mg, 1mg, 5mg          |
| C4X-21876  | 26771-20-0 | 13-cis-Vitamin A Palmitate                    | C36H60O2         | 524.86     | 100mg, 10mg, 20mg, ...  |
| CCHM701002 | 26934-87-2 | Ht-2 Toxin                                    | C22H32O8         | 424.48     | 100mg, 1mg, 50mg, 5...  |
| CCPD101617 | 27304-13-8 | Oxychlordane                                  | C10H4Cl8O        | 423.76     | 10mg, 1mg               |
| C4X-169932 | 28698-93-3 | N-Nitroso Minocycline EP Impurity C           | C22H24N4O8       | 472.45     | 100mg, 10mg, 15mg, ...  |
| CCAD302582 | 29205-06-9 | Fluocortolone Pivalate                        | C27H37FO5        | 460.58     | 10mg, 20mg, 25mg, 5...  |
| C4X-169928 | 32598-29-1 | 7-Ethyl Methyl Amino Minocycline              | C24H29N3O7       | 471.50     | 100mg, 10mg, 15mg, ...  |
| CCPE901869 | 32911-62-9 | Withanolide A                                 | C28H38O6         | 470.60     | 100mg, 10mg, 15mg, ...  |
| C4X-100143 | 33442-56-7 | Erythromycin EP Impurity K                    | C36H65NO12       | 703.90     | 100mg, 10mg, 1mg, 2...  |
| CCAD301106 | 34097-16-0 | Clocortolone Pivalate                         | C27H36ClFO5      | 495.02     | 0.5mg, 100mg, 10mg,...  |
| CCEM501689 | 35554-08-6 | Saxitoxin                                     | C10H17N7O4 2*... | 299.29 ... | 0.5mL                   |
| C4X-122029 | 36801-25-9 | Metformin EP Impurity E Sulfate               | C3H9N5 H2O4S     | 115.14 ... | 100mg, 10mg, 200mg...   |
| CCAD300146 | 38339-11-6 | Clenproperol                                  | C11H16Cl2N2O     | 263.16     | 100mg, 10mg, 1mg, 2...  |
| CCPD100483 | 38641-94-0 | Glyphosate Isopropylamine Salt                | C3H8NO5P C3H9N   | 169.07 ... | 100mg, 10mg, 50mg, ...  |
| C4X-17061  | 40980-51-6 | Mupirocin EP Impurity A                       | C26H44O10        | 516.62     | 100mg, 10mg, 15mg, ...  |
| CCFD201742 | 41312-47-4 | 3-Fucosyllactose                              | C18H32O15        | 488.44     | 100mg, 10mg, 1g, 1m...  |
| C4X-18747  | 41325-63-7 | Cyanocobalamin EP Impurity E (8-epi-cyanoc... | C63H88CoN14O1... | 1355.37    | 100mg, 10mg, 150mg...   |
| C4X-151011 | 41461-13-6 | Calcitriol Impurity 11                        | C27H44O2         | 400.64     | 100mg, 10mg, 25mg, ...  |
| CCPE901557 | 41743-41-3 | Procyanidin A2                                | C30H24O12        | 576.50     | 10mg, 20mg, 25mg, 5...  |
| C4X-131642 | 45629-00-3 | Fosfomycin Impurity 42                        | C3H5O4P 2*Na     | 136.04 ... | 100mg, 10mg, 110mg...   |
| CCAD303781 | 49697-38-3 | Rimexolone                                    | C24H34O3         | 370.52     | 100mg, 10mg, 1mg, 2...  |
| CCAD303420 | 51333-59-6 | Fluocinonide 22 Methyl Homologue              | C25H30F2O7       | 480.50     | 100mg, 10mg, 50mg       |
| CCHM700897 | 51481-10-8 | Deoxynivalenol                                | C15H20O6         | 296.32     | 100mg, 10mg, 1g, 1m...  |
| CCAD301194 | 54328-33-5 | Dermatan Sulfate                              | N/A              | N/A        | 100mg, 1g, 25mg, 50...  |
| C4X-18458  | 54617-39-9 | Neomycin EP Impurity B                        | C14H28N4O7       | 364.39     | 100mg, 10mg, 25mg, ...  |
| CCHM700857 | 55134-13-9 | Narasin                                       | C43H72O11        | 765.03     | 100mg, 10mg, 125mg...   |
| CCPD101698 | 56516-72-4 | N-Nitroso-N-(phosphonomethyl)glycine          | C3H7N2O6P        | 198.07     | 100mg, 10mg, 200mg...   |

## Reference standards catalogue - 466 compounds

| Cat. no.      | CAS         | Compound                                        | Formula          | MW         | Pack sizes             |
|---------------|-------------|-------------------------------------------------|------------------|------------|------------------------|
| CCPE901513    | 57126-62-2  | Charantin                                       | C35H60O6 C35H... | 576.85 ... | 10mg, 5mg              |
| C4X-14593     | 58682-86-3  | Misoprostol EP Impurity C                       | C22H36O4         | 364.53     | 100mg, 10mg, 15mg, ... |
| CCFD200808    | 58864-81-6  | alpha-Tocotrienol                               | C29H44O2         | 424.66     | 100mg, 10mg, 1mg, 2... |
| COTI111628    | 59344-47-7  | Trichloroheptyl Stannane                        | C7H15Cl3Sn       | 324.26     | 100mg, 10mg, 50mg      |
| C4X-16621     | 59995-64-1  | Imipenem EP Impurity A                          | C11H16N2O4S      | 272.32     | 100mg, 10mg, 20mg, ... |
| CCFD201014    | 62595-11-3  | L-Tryptophan-d5                                 | C11H7D5N2O2      | 209.26     | 1mg, 20mg, 25mg, 5mg   |
| CCAD301247    | 63409-10-9  | Tylosin 3-Acetate                               | C48H79NO18       | 958.14     | 0.5mg, 10mg, 1mg, 5... |
| CCAD301422    | 63409-12-1  | Tylvalosin                                      | C53H87NO19       | 1042.25    | 10mg, 1mg, 200mg, 5... |
| CPAH111526    | 63466-71-7  | Benzo[a]Pyrene-d12                              | C20D12           | 264.38     | 10mg, 200mg, 25mg, ... |
| CCPE901349    | 64432-06-0  | Dulcoside A                                     | C38H60O17        | 788.87     | 100mg, 10mg, 200mg...  |
| C4X-13762     | 65085-29-2  | Ubidecarenone Impurity 2(Coenzyme Q10)          | C59H90O4         | 863.34     | 100mg, 10mg, 110mg...  |
| C1485002      | 65919-53-1  | (all-Z)-6,9,12,15,18-Heneicosapentaenoic Aci... | C22H34O2         | 330.50     | 100mg, 10mg, 1g, 1m... |
| CCAD301445    | 66521-38-8  | Melatonin-d4                                    | C13H12D4N2O2     | 236.30     | 10mg, 1mg, 2.5mg, 2... |
| C4X-25045     | 67028-17-5  | Triclosan Impurity 5                            | C12H5Cl3O2       | 287.53     | 100mg, 10mg, 20mg, ... |
| C4X-12707     | 67308-21-8  | Cefaclor EP Impurity G-Isomer 1                 | C16H17N3O4S      | 347.39     | 100mg, 10mg, 135mg...  |
| C4X-133519    | 67396-15-0  | Calcium Levofolinate EP Impurity F(Calcium s... | C20H19N7O7 Ca    | 509.49     | 100mg, 10mg, 20mg, ... |
| C4X-196914    | 68070-35-9  | Isotretinoin EP Impurity F                      | C20H28O2         | 300.44     | 100mg, 10mg, 25mg, ... |
| C1798828      | 68206-99-5  | Clindamycin B Palmitate                         | C33H61ClN2O6S    | 649.37     | 100mg, 10mg, 200mg...  |
| LCHM704983-ME | 68259-12-1  | Perfluorononanesulfonic Acid                    | C9HF19O3S        | 550.14     | 1mL                    |
| C4X-140122    | 73565-87-4  | Hydrocortisone-d4                               | C21H26D4O5       | 366.48     | 0.5mg, 10mg, 1mg, 5... |
| C4X-198211    | 74567-01-4  | Ivermectin EP Impurity K                        | C48H76O14        | 877.11     | 100mg, 10mg, 1mg, 2... |
| CCHM700948    | 77500-04-0  | 2-Amino-3,8-Dimethylimidazo[4,5-F]Quinoxaline   | C11H11N5         | 213.24     | 25mg, 300mg, 5mg       |
| CCAD301121    | 77546-39-5  | Testosterone-16,16,17-D3                        | C19H25D3O2       | 291.44     | 10mg, 1mg, 200mg, 2... |
| CCAD301503    | 78822-40-9  | Pirlimycin Hydrochloride                        | C17H31ClN2O5S... | 410.96 ... | 10mg, 1mg, 2.5mg, 5... |
| C4X-177513    | 79517-31-0  | Vancomycin EP Impurity L                        | C66H74Cl2N8O25   | 1450.24    | 100mg, 10mg, 115mg...  |
| C4X-139523    | 79573-48-1  | Folic Acid Impurity 23                          | C20H23N7O7       | 473.44     | 100mg, 10mg, 110mg...  |
| CCFD201922    | 80666-48-4  | Vitamin D3-[d3]                                 | C27H41D3O        | 387.66     | 100mg, 10mg, 1g, 1m... |
| CCHM704808    | 83329-89-9  | Potassium 11-Chloroeicosafuoro-3-oxaundec...    | C10ClF20O4S K    | 631.59 ... | 100mg, 1mg, 25mg, 5... |
| CCAD302444    | 83413-09-6  | Metronidazole-d3                                | C6H6D3N3O3       | 174.17     | 100mg, 10mg, 1mg, 2... |
| C4X-19984     | 83602-43-1  | Iso Cyclosporin H                               | C62H111N11O12    | 1202.61    | 100mg, 10mg, 200mg...  |
| C1932153      | 84272-84-4  | 3'-O-Angeloylhamaudol                           | C20H22O6         | 358.39     | 100mg, 10mg, 20mg, ... |
| CCAD301155    | 84957-30-2  | Cefquinome                                      | C23H24N6O5S2     | 528.60     | 100mg, 10mg, 250mg     |
| CCHM701295    | 85380-74-1  | Pentachlorophenol-13C6                          | [13C]6HCl5O      | 272.29     | 100mg, 10mg, 1mg, 5... |
| C4X-18197     | 86108-27-2  | Riboflavin 3',4'-Diphosphate                    | C17H22N4O12P2    | 536.32     | 100mg, 10mg, 15mg, ... |
| C1537922      | 94133-80-9  | 1,7-Diisopropyl-naphthalene                     | C16H20           | 212.33     | 100mg, 10mg, 20mg, ... |
| C4X-177518    | 99759-13-4  | Vancomycin EP Impurity K                        | C67H77Cl2N9O24   | 1463.28    | 100mg, 105mg, 10mg...  |
| CCHM700862    | 101043-37-2 | Microcystin-LR                                  | C49H74N10O12     | 995.17     | 0.1mg, 100mg, 10mg,... |
| C1025211      | 102867-56-1 | Diethylene Glycol-d8                            | C4H2D8O3         | 114.17     | 100mg, 10mg, 2.5mg,... |
| C4X-110311    | 103335-41-7 | Finasteride EP Impurity B                       | C20H29NO3        | 331.45     | 0.01mg, 100mg, 10m...  |
| C4X-253714    | 105038-43-5 | Glycyrrhizic Acid Impurity 14                   | C42H62O16        | 822.93     | 100mg, 10mg, 20mg, ... |
| CCEM500940    | 105600-27-9 | PCB 209-13C12                                   | 13C12Cl10        | 506.60     | 10mg, 1mg, 25mg, 2...  |
| C4X-18446     | 106799-07-9 | Amphoteronolide B                               | C41H62O14        | 778.92     | 0.5mg, 100mg, 10mg,... |
| C4X-19982     | 108027-45-8 | Ciclosporin EP Impurity D                       | C61H109N11O12    | 1188.58    | 100mg, 10mg, 12mg, ... |
| C4X-19983     | 108027-46-9 | Cyclosporin V (Ciclosporin EP Impurity E)       | C63H113N11O12    | 1216.64    | 100mg, 10mg, 15mg, ... |

## Reference standards catalogue - 466 compounds

| Cat. no.   | CAS         | Compound                                           | Formula          | MW         | Pack sizes             |
|------------|-------------|----------------------------------------------------|------------------|------------|------------------------|
| C4X-227516 | 113463-31-3 | Moxidectin EP Impurity I                           | C38H56O8S        | 672.91     | 100mg, 10mg, 200mg...  |
| C4X-227512 | 114041-23-5 | Moxidectin EP Impurity C                           | C36H51NO8        | 625.79     | 100mg, 10mg, 15mg, ... |
| C4X-22757  | 114041-32-6 | Moxidectin EP Impurity A                           | C35H49NO8        | 611.77     | 100mg, 10mg, 15mg, ... |
| CCFD200373 | 116355-83-0 | Fumonisin B1                                       | C34H59NO15       | 721.83     | 100mg, 10mg, 1mg, 2... |
| CCHM700985 | 116355-84-1 | Fumonisin B2                                       | C34H59NO14       | 705.83     | 0.5mg, 100mg, 10mg,... |
| CCAD300706 | 119520-05-7 | Zilpaterol?Enantiomer?                             | C14H19N3O2       | 261.32     | 100mg, 10mg, 1mg, 2... |
| C4X-227511 | 119718-45-5 | Moxidectin EP Impurity L                           | C37H53NO8        | 639.82     | 100mg, 10mg, 25mg, ... |
| C3D-5349   | 119798-44-6 | Stearidonic Acid Ethyl Ester                       | C20H32O2         | 304.47     | 100mg, 10mg, 150mg...  |
| CCAD303040 | 120396-36-3 | Gibberellin Acid (GA3)-d2                          | C19H20D2O6       | 348.39     | 10mg                   |
| CCAD300713 | 120882-22-6 | Desfuroyl Ceftiofur                                | C14H15N5O5S3     | 429.49     | 100mg, 10mg, 1g, 1m... |
| C3D-5442   | 123940-93-2 | (All-Z)-8,11,14,17-Eicosatetraenoic Acid Ethyl ... | C22H36O2         | 332.52     | 100mg, 10mg, 150mg...  |
| C4X-100215 | 123967-58-8 | Clarithromycin EP Impurity P                       | C39H71NO13       | 761.98     | 100mg, 10mg, 150mg...  |
| C4X-100213 | 124412-58-4 | Clarithromycin EP Impurity A                       | C38H69NO14       | 763.95     | 100mg, 10mg, 125mg...  |
| C4X-28903  | 125827-48-7 | ethyl (5Z,8Z,11Z,14Z,17E)-icosa-5,8,11,14,17-...   | C22H34O2         | 330.50     | 100mg, 10mg, 15mg, ... |
| C4X-28908  | 125827-49-8 | ethyl (5Z,8E,11Z,14Z,17Z)-icosa-5,8,11,14,17-...   | C22H34O2         | 330.50     | 100mg, 10mg, 15mg, ... |
| C4X-28906  | 125827-50-1 | ethyl(5E,8Z,11Z,14Z,17Z)-icosa-5,8,11,14,17-...    | C22H34O2         | 330.50     | 100mg, 10mg, 150mg...  |
| C4X-12221  | 126860-83-1 | Calcipotriol EP Impurity A                         | C27H38O3         | 410.59     | 100mg, 10mg, 15mg, ... |
| C4X-100211 | 128940-83-0 | Clarithromycin EP Impurity F                       | C39H71NO13       | 761.98     | 100mg, 10mg, 150mg...  |
| CCPD101762 | 131929-60-7 | Spinosyn A                                         | C41H65NO10       | 731.96     | 100mg, 10mg, 1mg, 2... |
| CCPD102217 | 131929-63-0 | Spinosyn D                                         | C42H67NO10       | 745.98     | 100mg, 10mg, 1mg, 2... |
| C4X-130022 | 132172-14-6 | Desmethyl Tacrolimus                               | C43H67NO12       | 789.99     | 100mg, 10mg, 1mg, 2... |
| CCAD301912 | 132183-78-9 | Carbamazepine-d10                                  | C15H2D10N2O      | 246.33     | 100mg, 10mg, 1mg, 5... |
| C4X-13008  | 134590-88-8 | Tacrolimus Lactone Isomer (Iso-FK-506)             | C44H69NO12       | 804.02     | 100mg, 10mg, 20mg, ... |
| C4X-18445  | 136135-57-4 | Amphotericin B EP Impurity B                       | C48H75NO17       | 938.11     | 100mg, 10mg, 130mg...  |
| C4X-280622 | 140670-42-4 | 1,3-Didocosaheptaenoin                             | C47H68O5         | 713.04     | 100mg, 10mg, 200mg...  |
| LCEM501878 | 141074-63-7 | Perfluoropentadecanoic acid                        | C15HF29O2        | 764.12     | 1mL                    |
| C4X-130010 | 143210-33-7 | Tacrolimus EP Impurity H                           | C43H69NO11       | 776.01     | 100mg, 10mg, 150mg...  |
| C4X-130033 | 144432-23-5 | Oxacyclohexane Open Ring Tacrolimus                | C44H71NO13       | 822.03     | 100mg, 10mg, 1mg, 2... |
| C4X-130019 | 144490-63-1 | Tacrolimus EP Impurity G                           | C44H69NO12       | 804.02     | 100mg, 10mg, 150mg...  |
| C4X-167715 | 155683-60-6 | Levonorgestrel EP Impurity O                       | C22H32O3         | 344.49     | 100mg, 10mg, 150mg...  |
| C4X-100321 | 163921-65-1 | Azithromycin-d3                                    | C38H69D3N2O12    | 752.00     | 10mg, 1mL, 1mg, 25mg   |
| CCHM701895 | 165399-56-4 | 2,2,2-Trichloro-acetic Acid-13C2                   | [13C]2HCl3O2     | 165.37     | 5mg                    |
| C4X-16632  | 171897-72-6 | Iodixanol EP Impurity G                            | C35H43I5N6O15    | 1422.27    | 100mg, 10mg, 180mg...  |
| CCPD103241 | 187166-15-0 | Spinetoram L                                       | C43H69NO10       | 760.01     | 0.5mg, 100mg, 10mg,... |
| C4X-127033 | 188915-45-9 | Cefaclor Impurity 33                               | C15H14ClN3O5S    | 383.81     | 100mg, 10mg, 150mg...  |
| CCAD300661 | 202480-68-0 | Chloramphenicol-d5                                 | C11H7D5Cl2N2O5   | 328.16     | 100mg, 100ug, 10mg,... |
| CCPD101799 | 203312-38-3 | Spirotetramat-enol                                 | C18H23NO3        | 301.38     | 100mg, 10mg, 25mg, ... |
| C4X-113288 | 222412-82-0 | Atorvastatin-d5 Calcium Salt                       | 2*C33H29D5FN2... | 2*562.6... | 0.5mg, 100mg, 10mg,... |
| C4X-17044  | 223776-49-6 | Mometasone Furoate EP Impurity B                   | C28H31ClO8S      | 563.06     | 100mg, 10mg, 15mg, ... |
| CCPD102094 | 240494-70-6 | Metofluthrin                                       | C18H20F4O3       | 360.34     | 100mg, 10mg, 1mg, 2... |
| C4X-20951  | 252006-38-5 | 3,4-Dideoxyglucosone-3-ene                         | C6H8O4           | 144.13     | 100mg, 10mg, 25mg, ... |
| C4X-16634  | 255376-57-9 | Iodixanol EP Impurity E                            | C32H38I6N6O13    | 1476.10    | 100mg, 10mg, 150mg...  |
| C4X-113289 | 265989-47-7 | ortho-Hydroxy Atorvastatin-d5 Calcium Salt         | 2*C33H29D5FN2... | 2*578.6... | 100mg, 10mg, 1mg, 2... |
| CCHM701614 | 287399-26-2 | Acrylamide-13C3                                    | [13C]3H5NO       | 74.06      | 1mg, 5mg               |

## Reference standards catalogue - 466 compounds

| Cat. no.      | CAS          | Compound                                        | Formula                       | MW                     | Pack sizes              |
|---------------|--------------|-------------------------------------------------|-------------------------------|------------------------|-------------------------|
| C4X-100218    | 299409-85-1  | Clarithromycin EP Impurity B                    | C37H67NO13                    | 733.93                 | 100mg, 10mg, 150mg...   |
| CCFD200902    | 347841-88-7  | Nicotinamide-2,4,5,6-d4                         | C6H2D4N2O                     | 126.15                 | 100mg, 10mg, 1mg, 2...  |
| CCFD200638    | 356786-94-2  | Pantothenic Acid-13C3,15N Hemicalcium Salt      | 2*C6[13C]3H16[1... 2*222.2... | 0.1mg, 1mg, 20mg, 5... |                         |
| C4X-177515    | 357396-41-9  | Vancomycin EP Impurity H                        | C66H76ClN9O24                 | 1414.81                | 100mg, 10mg, 20mg, ...  |
| CCAD300748    | 358731-91-6  | Dexamethasone-d5                                | C22H24D5FO5                   | 397.49                 | 100mg, 10mg, 1mg, 2...  |
| C3D-3369      | 362472-81-9  | Withanoside IV                                  | C40H62O15                     | 782.91                 | 100mg, 10mg, 20mg, ...  |
| C4X-17463     | 392711-19-2  | Everolimus EP Impurity A-d3                     | C51H76D3NO13                  | 917.19                 | 0.5mg, 100mg, 10mg,,... |
| C4X-13037     | 425365-64-6  | Roxithromycin EP Impurity G                     | C42H78N2O16                   | 867.07                 | 100mg, 10mg, 15mg, ...  |
| C4X-13038     | 425365-65-7  | Roxithromycin EP Impurity H                     | C41H76N2O14                   | 821.05                 | 100mg, 10mg, 1mg, 2...  |
| C4X-199816    | 437611-17-1  | Ciclosporin EP Impurity F                       | C61H109N11O12                 | 1188.58                | 100mg, 10mg, 15mg, ...  |
| CCPE901544    | 438045-89-7  | Rebaudioside F                                  | C43H68O22                     | 936.99                 | 100mg, 10mg, 200mg...   |
| C4X-131654    | 438210-39-0  | Fosfomycin Impurity 54                          | C3H5O4P 2*Na                  | 136.04 ...             | 100mg, 10mg, 110mg...   |
| C4X-11733     | 610271-07-3  | Acarbose EP Impurity C                          | C25H43NO18                    | 645.60                 | 100mg, 10mg, 200mg...   |
| C4X-100324    | 612069-26-8  | Azithromycin EP Impurity D                      | C38H72N2O13                   | 764.98                 | 100mg, 10mg, 15mg, ...  |
| C4X-100311    | 612534-95-9  | Azithromycin EP Impurity K                      | C38H70N2O13                   | 762.97                 | 100mg, 10mg, 1mg, 2...  |
| C4X-100144    | 616234-56-1  | Erythromycin EP Impurity M                      | C37H67NO13                    | 733.93                 | 100mg, 10mg, 1g, 20...  |
| C4X-10036     | 620169-47-3  | Azithromycin EP Impurity C                      | C37H70N2O12                   | 734.96                 | 1.5g, 100mg, 10mg, 1... |
| C4X-134110    | 620181-05-7  | Clindamycin Phosphas EP Impurity L              | C18H34ClN2O8PS                | 504.96                 | 100mg, 100ng, 10g, 1... |
| CS389962      | 749786-16-1  | Perfluoroundecanesulfonic acid                  | C11HF23O3S                    | 650.15                 | 100mg, 10mg, 1g, 25...  |
| CCHM704948    | 757124-72-4  | 1H,1H,2H,2H-Perfluorohexanesulfonic Acid        | C6H5F9O3S                     | 328.15                 | 0.9mL, 1.5mL, 10mg, ... |
| C4X-100320    | 763924-54-5  | Azithromycin EP Impurity O                      | C39H74N2O12                   | 763.01                 | 100mg, 10mg, 150mg...   |
| C1895289      | 791563-89-8  | Perfluorotridecanesulfonic acid                 | C13HF27O3S                    | 750.17                 | 100mg, 10mg, 1g, 25...  |
| C4X-28901     | 860629-94-3  | ethyl (5Z,8Z,11Z,14Z)-nonadeca-5,8,11,14-tet... | C21H34O2                      | 318.49                 | 100mg, 10mg, 15mg, ...  |
| C4X-157913    | 947692-16-2  | Cefpodoxime Proxetil EP Impurity H              | C42H54N10O18S4                | 1115.19                | 100mg, 10mg, 110mg...   |
| CCAD300655    | 957509-31-8  | 1-Amino Hydantoin-13C3                          | [13C]3H5N3O2                  | 118.07                 | 100mg, 10mg, 1mg, 2...  |
| LCET400137-ME | 960315-48-4  | Perfluorooctanoic acid-13C4                     | C4[13C]4HF15O2                | 418.04                 | 10mg, 1mL               |
| CCAD301156    | 1015855-87-4 | Ronidazole-d3                                   | C6H5D3N4O4                    | 203.17                 | 10mg, 1mg, 25mg, 50...  |
| CCPD103583    | 1020719-11-2 | (R,S)-Anatabine-2,4,5,6-d4                      | C10H8D4N2                     | 164.24                 | 10mg, 1mg, 20mg         |
| C4X-28576     | 1075240-42-4 | Omacycline Impurity 6                           | C30H42N4O8                    | 586.68                 | 100mg, 10mg, 120mg...   |
| CCAD302438    | 1093659-90-5 | Ezetimibe-d4                                    | C24H17D4F2NO3                 | 413.45                 | 1mg, 25mg, 5mg          |
| C4X-138925    | 1105542-94-6 | Budesonide-d8 (Mixture of Diastereomers)        | C25H26D8O6                    | 438.58                 | 100mg, 10mg, 1mg, 5...  |
| CCAD300659    | 1130050-35-9 | Ciprofloxacin-d8                                | C17H10D8FN3O3                 | 339.39                 | 100mg, 10mg, 1mg, 2...  |
| CCHM700981    | 1173019-53-8 | Nitrosobis(2-Hydroxyethyl)Amine-D8              | C4H2D8N2O3                    | 142.18                 | 100mg, 10mg, 1mg, 2...  |
| CCAD300656    | 1173020-16-0 | Semicarbazide-13C,15N2 Hydrochloride            | [13C]H5N[15N]2O... 78.05 3... | 100mg, 10mg, 1mg, 2... |                         |
| CCHM702335    | 1173020-38-6 | 4-(3?,6?-Dimethyl-3?-Heptyl)phenol-13C6         | C9[13C]6H24O                  | 226.31                 | 10mg, 1mg               |
| C4X-187730    | 1173023-49-8 | Pyridoxal-d3 Hydrochloride                      | C8H6D3NO3 HCl                 | 170.18 ...             | 100mg, 10mg, 1mg, 2...  |
| CCHM701587    | 1185057-55-9 | rac 1,2-Bis-palmitoyl-3-chloropropanediol-D5    | C35H62D5ClO4                  | 592.39                 | 100mg, 10mg, 1mL, 1...  |
| CCPD101631    | 1185107-63-4 | Glyphosate-13C2,15N                             | C[13C]2H8[15N]O... 172.05     | 10mg, 1mg, 25mg, 50... |                         |
| C4X-122024    | 1185166-01-1 | Metformin-d6 Hydrochloride                      | C4H5D6N5 HCl                  | 135.20 ...             | 10mg, 15mg, 1mg, 25...  |
| CCAD300672    | 1185179-33-2 | Acyclovir-d4                                    | C8H7D4N5O3                    | 229.23                 | 1mg, 20mg, 50mg         |
| CCAD300603    | 1189658-09-0 | Terbutaline-d9                                  | C12H10D9NO3                   | 234.34                 | 100mg, 10mg, 1mg, 2...  |
| CCPD101697    | 1189730-34-4 | 2,3-Dichloro-1-propanol-d5                      | C3HD5Cl2O                     | 134.02                 | 10mg, 50mg, 5mg         |
| C4X-143755    | 1202002-02-5 | Betamethasone impurity 55                       | C22H30FO8P                    | 472.44                 | 100mg, 10mg, 15mg, ...  |
| C4X-113844    | 1204219-80-6 | Dapagliflozin-D5                                | C21H20D5ClO6                  | 413.90                 | 100mg, 10mg, 1mg, 2...  |

## Reference standards catalogue - 466 compounds

| Cat. no.   | CAS          | Compound                                         | Formula           | MW         | Pack sizes             |
|------------|--------------|--------------------------------------------------|-------------------|------------|------------------------|
| CP107013   | 1210022-90-4 | Rifaximin EP Impurity H                          | C43H51N3O12       | 801.88     | 100mg, 10mg, 200mg...  |
| CCAD300688 | 1216659-54-9 | Ciprofloxacin-D8 Hydrochloride                   | C17H10D8FN3O...   | 339.39 ... | 100mg, 10mg, 1mg, 2... |
| CCFD201948 | 1217448-46-8 | Vitamin D2-d3                                    | C28H41D3O         | 399.67     | 100mg, 10mg, 1mg, 5... |
| CCAD301165 | 1217723-41-5 | ent-Thiamphenicol-d3                             | C12H12D3Cl2NO...  | 359.24     | 100mg, 10mg, 1mg, 2... |
| CCFD201211 | 1217850-77-5 | rac Biotin-d4                                    | C10H12D4N2O3S     | 248.34     | 100mg, 10mg, 1mg, 2... |
| CCHM701644 | 1219794-54-3 | N-Nitrosodiethylamine-d10                        | C4D10N2O          | 112.20     | 100mg, 10mg, 1mg, 2... |
| CCAD300707 | 1219798-60-3 | Salbutamol-d3                                    | C13H18D3NO3       | 242.33     | 100mg, 10mg, 1mg, 1... |
| CCEM500924 | 1219798-82-9 | N-Nitroso-Di-n-Butylamine-d18                    | C8D18N2O          | 176.35     | 100mg, 10mg, 2.5mg,... |
| C4X-11732  | 1220983-54-9 | Acarbose EP Impurity B                           | C26H43NO17        | 641.62     | 100mg, 10mg, 200mg...  |
| CCPD102230 | 1228284-64-7 | Pydiflumetofen                                   | C16H16Cl3F2N3O2   | 426.67     | 100mg, 10mg, 150mg...  |
| CCFD200493 | 1233937-39-7 | Vitamin K1-d7                                    | C31H39D7O2        | 457.74     | 100mg, 10mg, 1g, 1m... |
| CCEM501626 | 1246820-81-4 | 2,4,5,6-Tetrachlorophenol-13C6                   | [13C]6H2Cl4O      | 237.85     | 100mg, 10mg, 1mg       |
| CWLT600696 | 1257647-76-9 | Tributyltin Chloride-D27                         | C12D27ClSn        | 352.67     | 100mg, 10mg, 1g, 1m... |
| C4X-114611 | 1260617-10-4 | Clavulanate EP Impurity E                        | C16H18N2O10       | 398.32     | 100mg, 10mg, 15mg, ... |
| C4X-13165  | 1262243-12-8 | Fosfomycin Trometamol EP Impurity D              | C10H25NO11P2      | 397.25     | 100mg, 10mg, 110mg...  |
| CCHM701147 | 1276197-17-1 | Ractopamine-d6 Hydrochloride                     | C18H17D6NO3 HCl   | 307.42 ... | 100mg, 10mg, 1mL, 1... |
| C4X-301123 | 1298086-22-2 | Ertugliflozin-d5                                 | C22H20D5ClO7      | 441.91     | 10mg, 1mg, 200mg, 5... |
| C4X-11789  | 1320360-86-8 | Olanzapine Impurity 9                            | C15H18N4OS        | 302.39     | 100mg, 10mg, 15mg, ... |
| C4X-11788  | 1320360-87-9 | Olanzapine Impurity 8                            | C17H20N4O2S       | 344.43     | 100mg, 10mg, 15mg, ... |
| CCAD301758 | 1329509-49-0 | 2-Methyl-3-Isothiazolone-d3 Hydrochloride        | C4H2D3NOS HCl     | 118.17 ... | 100mg, 10mg, 1mg, 2... |
| CCAD301759 | 1329611-34-8 | 5-Chloro-2-Methyl-3-Isothiazolone-d3             | C4HD3ClNOS        | 152.62     | 100mg, 10mg, 1mg, 2... |
| CCAD301760 | 1329616-16-1 | Benzoisothiazol-3-one-13C6                       | C[13C]6H5NOS      | 157.14     | 0.5mg, 10mg, 1g, 1m... |
| CCFD200581 | 1329796-49-7 | 1,3-Distearoyl-2-Chloropropanediol-d5            | C39H70D5ClO4      | 648.49     | 100mg, 10mg, 1mL, 1... |
| C4X-21908  | 1350468-76-6 | Ethinylestradiol EP Impurity H                   | C20H22O3          | 310.39     | 100mg, 10mg, 110mg...  |
| CCFD201018 | 1353867-99-8 | Patulin-13C7                                     | [13C]7H6O4        | 161.07     | 1mL                    |
| C4X-139537 | 1356019-94-7 | Levomefolic Acid-13C,d3                          | C19[13C]H22D3N... | 463.47     | 10mg, 1mg              |
| C1930991   | 1382419-20-6 | N-formyl-175-J                                   | C42H67NO11        | 761.98     | 10mg, 1mg, 20mg, 25... |
| C4X-13955  | 1391068-26-0 | Folic Acid EP Impurity E                         | C26H24N12O7       | 616.54     | 100mg, 10mg, 15mg, ... |
| C4X-169519 | 1392514-04-3 | Micafungin Serine Analog                         | C55H68N9O23S ...  | 1255.24... | 100mg, 10mg, 20mg, ... |
| C4X-16957  | 1392514-05-4 | Micafungin Impurity H                            | C56H70N9O23S ...  | 1269.27... | 100mg, 10mg, 1mg, 2... |
| C4X-131624 | 1416734-33-2 | Fosfomycin Impurity 24                           | C6H14O8P2         | 276.12     | 100mg, 10mg, 200mg...  |
| C4X-13416  | 1440605-46-8 | Clindamycin Isomer Impurity?Clindamycin EP ...   | C18H33ClN2O5S     | 424.98     | 100mg, 10mg, 20mg, ... |
| CP116459   | 1440950-65-1 | Levocarnitine Impurity N5                        | C7H13NO2          | 143.18     | 100mg, 10mg, 200mg...  |
| C4X-11574  | 1453167-99-1 | Dextromethorphan EP Impurity D                   | C18H25NO          | 271.40     | 100mg, 10mg, 150mg...  |
| C4X-13035  | 1460313-66-9 | Roxithromycin EP Impurity E                      | C40H74N2O15       | 823.02     | 100mg, 10mg, 200mg...  |
| LCFD202477 | 1487375-69-8 | 13C6-Cereulide                                   | C51[13C]6H96N6... | 1159.36    | 1mL                    |
| C4X-16975  | 1550201-56-3 | Miglitol Impurity C                              | C8H17NO5          | 207.22     | 100mg, 10mg, 20mg, ... |
| CCFD202107 | 1627119-76-9 | Sodium Cyclamate-D4                              | C6H8D4NO3S Na     | 182.25 ... | 100mg, 10mg, 1mL, 1... |
| C4X-292463 | 1644251-70-6 | Mirogabalin Impurity 63                          | C12H19NO2         | 209.28     | 100mg, 10mg, 150mg...  |
| C4X-292464 | 1644251-71-7 | Mirogabalin Impurity 64                          | C12H19NO2         | 209.28     | 100mg, 10mg, 150mg...  |
| C1389372   | 1788085-78-8 | Misoprostol EP Impurity A (mixture of isomers)   | C22H38O5          | 382.53     | 100mg, 10mg, 20mg, ... |
| C4X-14594  | 1788085-79-9 | Misoprostol EP Impurity D (Mixture of Enantio... | C22H36O4          | 364.52     | 100mg, 10mg, 1mg, 2... |
| CCHM701219 | 1794786-93-8 | Bisphenol F-d10                                  | C13H2D10O2        | 210.29     | 10mg, 1mg, 20mg, 25... |
| C4X-15256  | 1795129-59-7 | Formoterol EP Impurity F (Mixture of Diastere... | C37H46N4O6        | 642.78     | 100mg, 10mg, 135mg...  |

## Reference standards catalogue - 466 compounds

| Cat. no.    | CAS          | Compound                                           | Formula          | MW         | Pack sizes              |
|-------------|--------------|----------------------------------------------------|------------------|------------|-------------------------|
| C4X-134139  | 1800297-62-4 | Clindamycin (2R-cis)-Diastereomer 2-Phosph...      | C18H34ClN2O8PS   | 504.96     | 100mg, 10mg, 15mg, ...  |
| C4X-116511  | 1809224-82-5 | Dexamethasone EP Impurity K                        | C22H26O4         | 354.44     | 100mg, 10mg, 110mg...   |
| C4X-169671  | 1884269-07-1 | Sacubitril-d4                                      | C24H25D4NO5      | 415.52     | 100mg, 10mg, 1mg, 2...  |
| C4X-137610  | 2006296-15-5 | 5-Demethoxy Coenzyme Q10                           | C58H88O3         | 833.32     | 100mg, 10mg, 20mg, ...  |
| CCPD103639  | 2056235-51-7 | M700F048                                           | C23H20F5N3O6     | 529.41     | 10mg, 1mg, 25mg, 5mg    |
| C1459400    | 2064219-13-0 | (2R,5R)-6-(benzyloxy)-7-oxo-1,6-diazabicyclo[...   | C14H16N2O4       | 276.29     | 100mg, 1g, 20mg, 25...  |
| C4X-134852  | 2064219-14-1 | Avibactam Impurity 52                              | C14H16N2O4       | 276.29     | 100mg, 10mg, 1g, 20...  |
| C4X-116953  | 2070009-41-3 | Rosuvastatin-d6 Sodium Salt                        | C22H21D6FN3O...  | 486.57 ... | 0.5mg, 100mg, 10mg,...  |
| C4X-172047  | 2081110-44-1 | Oseltamivir Impurity 47                            | C16H28N2O4 HCl   | 312.40 ... | 100mg, 10mg, 200mg...   |
| C4X-109510  | 2173291-00-2 | Amlodipine N-Lactoside (Mixture of Diastereo...    | C32H45ClN2O15    | 733.16     | 100mg, 10mg, 150mg...   |
| C4X-114616  | 2196185-67-6 | Clavam-2-carboxylate potassium                     | C6H6NO4 K        | 156.12 ... | 100mg, 10mg, 25mg, ...  |
| CCAD300799  | 2213400-85-0 | Florfenicol-d3                                     | C12H11D3Cl2FN... | 361.23     | 100mg, 10mg, 1mL, 1...  |
| C4X-11113   | 2231638-02-9 | Bicyclo Risperidone                                | C23H28FN4O2 I    | 411.49 ... | 100mg, 10mg, 150mg...   |
| C4X-112313  | 2247196-28-5 | Canagliflozin Impurity 13                          | C24H25FO7S       | 476.51     | 100mg, 10mg, 150mg...   |
| C4X-28574   | 2272886-38-9 | Omacycline 7-desmethyl impurity                    | C28H38N4O7       | 542.62     | 100mg, 10mg, 120mg...   |
| C4X-285726  | 2272886-40-3 | Omacycline M+2 impurity                            | C29H42N4O7       | 558.67     | 100mg, 10mg, 15mg, ...  |
| C4X-23793   | 2305368-53-8 | Imrecoxib Impurity 3                               | C21H23NO3S       | 369.48     | 100mg, 10mg, 20mg, ...  |
| C4X-28902   | 2347415-07-8 | (5Z,8Z,11Z,14Z,17Z)-ethyl nonadeca-5,8,11,1...     | C21H32O2         | 316.48     | 100mg, 105mg, 10mg...   |
| C3D-6140    | 2347415-30-7 | (8Z,11Z,14Z)-Octadecatrienoic Acid Ethyl Ester     | C20H34O2         | 306.48     | 100mg, 10mg, 15mg, ...  |
| C4X-139521  | 2366274-27-1 | Folic Acid EP Impurity H                           | C31H31N9O10      | 689.63     | 100mg, 10mg, 15mg, ...  |
| CCAD303127  | 2408131-70-2 | Bempedoic Acid-d4                                  | C19H32D4O5       | 348.51     | 1mg, 25mg               |
| C4X-283634  | 2412921-45-8 | Alectinib Impurity 34                              | C30H34N4O5S      | 562.68     | 100mg, 10mg, 1g, 25...  |
| C4X-17757   | 2415254-43-0 | Vancomycin EP Impurity F                           | C67H77Cl2N9O24   | 1463.28    | 100mg, 10mg, 115mg...   |
| C4X-177511  | 2416251-24-4 | Vancomycin EP Impurity J                           | C66H75Cl2N9O24   | 1449.25    | 100mg, 10mg, 15mg, ...  |
| C4X-28909   | 2447131-67-9 | (4Z,7Z,10Z,13Z,16Z)-4,7,10,13,16,19-Eicosah...     | C22H32O2         | 328.49     | 100mg, 10mg, 15mg, ...  |
| C4X-227515  | 2482741-81-9 | Moxidectin EP Impurity H                           | C37H51NO7        | 621.80     | 100mg, 10mg, 15mg, ...  |
| C4X-22565   | 2518301-34-1 | Chlorhexidine Impurity 5                           | C13H15ClN2O6     | 330.72     | 100mg, 10mg, 200mg...   |
| C4X-20456   | 2564638-97-5 | Osimertinib Impurity 6                             | C56H67N14O4 Cl   | 1000.22... | 100mg, 10mg, 1g, 20...  |
| C3D-5908    | 2580285-53-4 | 8(Z),11(Z),14(Z),17(Z)-Octadecatetraenoic Aci...   | C20H32O2         | 304.47     | 100mg, 10mg, 15mg, ...  |
| C4X-2494135 | 2626886-23-3 | Dotinurad-d4                                       | C14H5D4Cl2NO4S   | 362.22     | 10mg, 1mg, 25mg, 5mg    |
| CCAD300810  | 2673270-36-3 | Amoxicillin-D4                                     | C16H15D4N3O5S    | 369.43     | 10mg, 15mg, 1mg, 25...  |
| C4X-139542  | 2734707-85-6 | Folic Acid Sulfate EP Impurity G                   | C19H19N7O6 H2... | 441.40 ... | 100mg, 10mg, 110mg...   |
| C1931587    | 2747918-45-0 | Doxycycline-d3                                     | C22H21D3N2O8     | 447.45     | 100mg, 100?g, 10mg,...  |
| C4X-10876   | 2747958-44-5 | Tadalafil EP Impurity F                            | C22H19N3O6       | 421.40     | 100mg, 10mg, 110mg...   |
| CCHM704496  | 2750119-14-1 | 6PPD-quinone-D5                                    | C18H17D5N2O2     | 303.41     | 10mg, 1mg               |
| C4X-21221   | 2767988-82-7 | Mycophenolate EP Impurity B                        | C17H20O6         | 320.34     | 100mg, 10mg, 110mg...   |
| CCPD103644  | 2830652-00-9 | 2-(3,5-Bis(trifluoromethyl)phenyl)-1-(ethanesul... | C17H12F6N2O2S    | 422.34     | 100mg, 10mg, 1mg, 2...  |
| C4X-253717  | 2919137-39-4 | Glycyrrhizic Acid Impurity 17                      | C42H62O17        | 838.93     | 100mg, 10mg, 200mg...   |
| C4X-107459  | 2928577-05-1 | Moxifloxacin Impurity RC-4                         | C21H22FN3O6      | 431.41     | 100mg, 10mg, 15mg, ...  |
| C4X-12222   | 2948288-30-8 | Calcipotriol EP Impurity B                         | C27H40O3         | 412.60     | 100mg, 10mg, 150mg...   |
| C4X-182412  | 3025716-46-2 | Cefcapene Impurity 12                              | C39H45N9O12S4    | 960.09     | 100g, 100mg, 10g, 10... |
| C4X-109582  | 3048033-49-1 | Amlodipine Impurity 82                             | C20H24ClN3O6     | 437.87     | 100mg, 10mg, 120mg...   |
| C4X-110317  | 3088800-46-5 | Dutasteride EP Impurity D                          | C27H28F6N2O2     | 526.51     | 100mg, 10mg, 110mg...   |
| C3D-26194   | 3088800-63-6 | 2-Methyl-5-nitro-1-nitroso-1H-imidazole            | C4H4N4O3         | 156.10     | 100mg, 10mg, 20mg, ...  |

## Reference standards catalogue - 466 compounds

| Cat. no.      | CAS | Compound                                          | Formula          | MW         | Pack sizes             |
|---------------|-----|---------------------------------------------------|------------------|------------|------------------------|
| LCEM100015-TO | -   | PBDES-Mix 10                                      |                  | 0.00       | 1mL, 50mg              |
| LCEM100017-TI | -   | PBBS-Mix 10                                       | N/A              | N/A        | 1mL                    |
| C4X-28904     | -   | ethyl (5Z,8Z,11Z,14E,17Z)-icosa-5,8,11,14,17-...  | C22H34O2         | 330.50     | 100mg, 10mg, 150mg...  |
| C4X-28907     | -   | ethyl (5Z,8Z,11E,14Z,17Z)-icosa-5,8,11,14,17-...  | C22H34O2         | 330.50     | 100mg, 10mg, 15mg, ... |
| C4X-289011    | -   | (5E,8E,11Z,14Z,17Z)-5,8,11,14,17-Ethyl Eicos...   | C22H34O2         | 330.50     | 100mg, 10mg, 120mg...  |
| C4X-289014    | -   | (5E,8E,11E,14Z,17E)-5,8,11,14,17-Ethyl Eico...    | C22H34O2         | 330.50     | 100mg, 10mg, 120mg...  |
| C4X-253719    | -   | Glycyrrhizic Acid Impurity 19                     | C42H62O16        | 822.93     | 100mg, 10mg, 15mg, ... |
| C4X-289010    | -   | (6Z,9Z,12Z,15Z)-6,9,12,15,18-ethyl Nonadeca...    | C21H32O2         | 316.48     | 100mg, 10mg, 15mg, ... |
| C4X-119516    | -   | All-rac-alfa-Tocopherol EP Impurity A (Mixture... | C29H50O2         | 430.71     | 100mg, 10mg, 120mg...  |
| C4X-22751     | -   | Moxidectin EP Impurity D                          | C37H53NO8        | 639.82     | 100mg, 10mg, 1g, 20... |
| C4X-289013    | -   | (5Z,8E,11Z,14E,17Z)-5,8,11,14,17-Ethyl Eicos...   | C22H34O2         | 330.50     | 100mg, 10mg, 175mg...  |
| C4X-289012    | -   | (5Z,8E,11E,14Z,17Z)-5,8,11,14,17-Ethyl Eicos...   | C22H34O2         | 330.50     | 100mg, 10mg, 175mg...  |
| C4X-139541    | -   | Folic Acid EP Impurity E Sulfate                  | C26H24N12O7 H... | 616.54 ... | 100mg, 10mg, 15mg, ... |
| C4X-119528    | -   | All-rac-alfa-Tocopherol EP Impurity D             | C40H76           | 557.03     | 100mg, 10mg, 20mg, ... |
| C4X-1348137   | -   | Avibactam Impurity 137                            | C13H25N7O8S      | 439.44     | 100mg, 10mg, 20mg, ... |
| C4X-280621    | -   | ethyl 9-(3,4-dimethyl-5-propylfuran-2-yl)nonan... | C20H34O3         | 322.48     | 100mg, 10mg, 15mg, ... |
| C4X-2924106   | -   | Mirogabalin Impurity 106                          | C12H17NO3        | 223.27     | 100mg, 10mg, 1g, 20... |
| C4X-11972     | -   | Sodium Fusidate EP Impurity B                     | C31H48O7         | 532.71     | 100mg, 10mg, 125mg...  |
| C4X-225627    | -   | Chlorhexidine EP Impurity J Formate               | C28H38Cl2N10O... | 665.57 ... | 100mg, 10mg, 20mg, ... |
| C4X-293722    | -   | N-Nitroso Abemaciclib                             | C27H31F2N9O      | 535.59     | 100mg, 105mg, 10mg...  |
| C4X-173113    | -   | Pimecrolimus Impurity 13                          | C43H68ClNO11     | 810.45     | 100mg, 10mg, 25mg, ... |
| C4X-177510    | -   | Vancomycin EP Impurity I                          | C66H75Cl2N9O24   | 1449.25    | 100mg, 10mg, 20mg, ... |
| C4X-225624    | -   | Chlorhexidine Impurity 24                         | C22H34ClN9O6     | 556.02     | 100mg, 10mg, 20mg, ... |
| C4X-130045    | -   | Tacrolimus EP Impurity B                          | C43H69NO12       | 792.01     | 100mg, 10mg, 150mg...  |
| C4X-154222    | -   | Amoroven EP impurity L TFA Salt                   | C26H45NO C2HF... | 387.64 ... | 100mg, 10mg, 20mg, ... |
| C4X-285721    | -   | N-Nitroso N-Desmethyl Omadacycline 1              | C28H37N5O8       | 571.62     | 100mg, 10mg, 110mg...  |
| C4X-222617    | -   | Semaglutide-d8 Tetratrifluoroacetate              | C187H283D8N45... | 4121.69... | 10mg, 15mg, 1mg, 25... |
| C4X-1348136   | -   | Avibactam Impurity 136                            | C13H25N7O8S      | 439.44     | 100mg, 10mg, 20mg, ... |
| C4X-192420    | -   | Urapidil Impurity 20                              | C20H28N6O4       | 416.47     | 100mg, 10mg, 20mg, ... |
| C4X-1130116   | -   | Ilaprazole Impurity 116                           | C20H18N5OS Cl    | 376.45 ... | 100mg, 10mg, 15mg, ... |
| C4X-23798     | -   | Imrecoxib Impurity 8                              | C21H23NO3S       | 369.48     | 100mg, 10mg, 20mg, ... |
| C4X-17758     | -   | Vancomycin EP Impurity G                          | C66H72Cl2N8O24   | 1432.22    | 100mg, 105mg, 10mg...  |
| C4X-285723    | -   | N-Nitroso N-Desmethyl Omadacycline 2              | C28H37N5O8       | 571.62     | 100mg, 10mg, 110mg...  |
| C4X-301135    | -   | Ertugliflozin impurity 35                         | C43H48Cl2O13     | 843.74     | 100mg, 10mg, 20mg, ... |
| C4X-227510    | -   | Moxidectin EP Impurity F                          | C38H55NO8        | 653.85     | 100mg, 10mg, 150mg...  |
| C4X-238117    | -   | Fluocinolone Acetonide Impurity 17                | C24H32F2O9S      | 534.57     | 100mg, 10mg, 15mg, ... |
| C4X-17313     | -   | Pimecrolimus Impurity 3                           | C43H68ClNO11     | 810.45     | 100mg, 10mg, 20mg, ... |
| C4X-130312    | -   | Roxithromycin EP Impurity K                       | C41H76N2O16      | 853.05     | 100mg, 10mg, 15mg, ... |
| C4X-208136    | -   | Teprenone impurity 36                             | C23H38O2         | 346.55     | 100mg, 10mg, 20mg, ... |
| C4X-208124    | -   | Teprenone Impurity 24                             | C23H38O2         | 346.55     | 100mg, 10mg, 200mg...  |
| C4X-165044    | -   | Fluticasone Propionate EP Impurity K              | C25H31ClF2O5S    | 517.03     | 100mg, 10mg, 12 mg,... |
| C4X-220011    | -   | 3-N-Ureido Tobramycin                             | C19H38N6O10      | 510.54     | 100mg, 10mg, 200mg...  |
| MPAH111518-DI | -   | PAH Mix 18                                        | N/A              | 0.00       | 1mL                    |
| C4X-25373     | -   | Ammonium Glycyrrhizate EP Impurity A              | C42H62O17        | 838.93     | 100mg, 10mg, 20mg, ... |

## Reference standards catalogue - 466 compounds

| Cat. no.    | CAS | Compound                                          | Formula          | MW         | Pack sizes             |
|-------------|-----|---------------------------------------------------|------------------|------------|------------------------|
| C4X-177922  | -   | Ergocalciferol EP Impurity F                      | C28H42O          | 394.63     | 100mg, 10mg, 20mg, ... |
| C4X-208125  | -   | Teprenone Impurity 25                             | C23H38O2         | 346.55     | 100mg, 10mg, 200mg...  |
| C4X-2880204 | -   | Finerenone Impurity 204                           | C13H14N4O        | 242.28     | 100mg, 10mg, 20mg, ... |
| C4X-116528  | -   | Dexamethasone Sodium Phosphate EP Impur...        | C22H30FO8P       | 472.44     | 100mg, 10mg, 200mg...  |
| C4X-198213  | -   | Ivermectin EP Impurity F                          | C48H74O14        | 875.09     | 100mg, 10mg, 110mg...  |
| C4X-169933  | -   | Minocycline Impurity 33                           | C22H24N4O8       | 472.45     | 100mg, 10mg, 15mg, ... |
| C4X-208126  | -   | Teprenone Impurity 26                             | C23H38O2         | 346.55     | 100mg, 10mg, 1mg, 2... |
| C4X-142673  | -   | Loratadine glucose adduct                         | C28H33CIN2O8     | 561.02     | 100mg, 105mg, 12.5...  |
| C4X-19604   | -   | Cilastatin EP Impurity F                          | C16H26N2O5S      | 358.45     | 100mg, 10mg, 20mg, ... |
| C4X-116529  | -   | Dexamethasone Sodium Phosphate EP Impur...        | C22H30FO8P       | 472.44     | 100mg, 105mg, 10mg...  |
| C4X-23797   | -   | Imrecoxib Impurity 7                              | C21H21NO3S       | 367.46     | 100mg, 10mg, 200mg...  |
| C4X-165019  | -   | Fluticasone Propionate EP Impurity J              | C25H31F3O5S      | 500.57     | 100mg, 10mg, 12 mg,... |
| CCAD301941  | -   | Azithromycin-d5 (major)                           | C38H67D5N2O12    | 754.02     | 100mg, 10mg, 1mg, 2... |
| C4X-170627  | -   | Mupirocin Dimer 2                                 | C52H88O18        | 1001.24    | 100mg, 10mg, 15mg, ... |
| C4X-17317   | -   | Pimecrolimus Impurity 7                           | C43H66ClNO10     | 792.44     | 100mg, 10mg, 25mg, ... |
| C4X-130025  | -   | Tacrolimus EP Impurity C                          | C43H67NO12       | 789.99     | 100mg, 10mg, 150mg...  |
| C4X-10874   | -   | Tadalafil EP Impurity D                           | C22H19N3O6       | 421.40     | 100mg, 10mg, 110mg...  |
| C4X-131262  | -   | Pregabalin Impurity 62                            | C24H42N2O4       | 422.60     | 100mg, 10mg, 1g, 20... |
| C4X-214434  | -   | Relebactam Impurity 34                            | C11H22N4O5S      | 322.38     | 100mg, 10mg, 200mg...  |
| C4X-1176206 | -   | Salbutamol Impurity P TFA                         | C22H31NO6 C2H... | 405.48 ... | 100mg, 10mg, 25mg, ... |
| C4X-145613  | -   | 16-(Hydroxymethyl) Rifampicin                     | C43H58N4O13      | 838.94     | 100mg, 10mg, 20mg, ... |
| C4X-2880266 | -   | Finerenone Impurity 266                           | C13H13N3O2       | 243.26     | 100mg, 10mg, 200mg...  |
| C4X-246722  | -   | Pinaverium Bromide Impurity 22                    | C26H41BrNO4 Br   | 511.51 ... | 100mg, 10mg, 15mg, ... |
| C4X-15054   | -   | Rifaximin EP Impurity D                           | C43H49N3O12      | 799.86     | 100mg, 10mg, 20mg, ... |
| C4X-238111  | -   | Fluocinolone Acetonide EP Impurity K              | C24H30F2O6       | 452.49     | 100mg, 10mg, 15mg, ... |
| C4X-227514  | -   | Moxidectin EP Impurity G                          | C37H55NO7        | 625.84     | 100mg, 10mg, 15mg, ... |
| C4X-25377   | -   | Ammonium Glycyrrhizate Impurity B                 | C42H62O17        | 838.93     | 100mg, 20mg, 250mg...  |
| CCFD201836  | -   | Ethyl Maltol-d5                                   | C7H3D5O3         | 145.17     | 100mg, 10mg, 1mg, 2... |
| C4X-29389   | -   | Eravacycline Impurity 9(TP-4705?)                 | C27H29FN4O8      | 556.54     | 100mg, 10mg, 1mg, 2... |
| C4X-293812  | -   | Eravacycline Impurity 12(TP-5799?)                | C27H29FN4O7      | 540.54     | 100mg, 10mg, 1mg, 2... |
| C4X-12227   | -   | Calcipotriol EP Impurity G                        | C54H78O5         | 807.19     | 100mg, 10mg, 150mg...  |
| C4X-169936  | -   | (5aR)-7-Desdimethylamino-7-((2-(dimethylami...    | C26H34N4O7       | 514.57     | 100mg, 10mg, 15mg, ... |
| C4X-131658  | -   | Fosfomycin Impurity 58                            | C6H16O9P2        | 294.13     | 100mg, 10mg, 200mg...  |
| C4X-292468  | -   | Mirogabalin impurity 68                           | C12H19NO3        | 225.28     | 100mg, 10mg, 1g, 20... |
| C4X-116530  | -   | Dexamethasone Sodium Phosphate EP Impur...        | C22H30FO8P       | 472.44     | 100mg, 10mg, 15mg, ... |
| C4X-182424  | -   | Cefcapene Impurity 24                             | C27H37N5O8S2     | 623.74     | 100mg, 10mg, 15mg, ... |
| C4X-147417  | -   | Beclometasone Dipropionate Monohydrate EP...      | C28H38O6         | 470.60     | 100mg, 10mg, 200mg...  |
| CCAD302249  | -   | Tobramycin-D, 18O Acetic Acid Salt                | C18H36DN5O8[1... | 470.52 ... | 0.5mg, 1mg             |
| C4X-29383   | -   | Eravacycline Impurity 3(TP-9944?)                 | C27H30FN3O8      | 543.54     | 100mg, 10mg, 1mg, 2... |
| C4X-29384   | -   | Eravacycline Impurity 4(TP-4308?)                 | C27H31FN4O7      | 542.56     | 100mg, 10mg, 1mg, 2... |
| C4X-110176  | -   | Linagliptin Impurity 76 (Mixture of Diastereom... | C52H58N16O4      | 971.12     | 100mg, 10mg, 1g, 20... |
| C4X-288046  | -   | Finerenone-d5                                     | C21H17D5N4O3     | 383.46     | 100mg, 10mg, 1mg, 2... |
| C4X-210612  | -   | Disulfide Bonded Polymers A-Linaclotide           | C118H158N30O4... | 3053.47    | 100mg, 10mg, 1g, 20... |
| C4X-21063   | -   | Cys1-Glucose-Linaclotide                          | C65H89N15O26S6   | 1688.9     | 100mg, 10mg, 20mg, ... |

## Reference standards catalogue - 466 compounds

| Cat. no.    | CAS | Compound                                     | Formula           | MW         | Pack sizes             |
|-------------|-----|----------------------------------------------|-------------------|------------|------------------------|
| C4X-29387   | -   | Eravacycline Impurity 7(TP-498?              | C27H31FN4O8       | 558.56     | 100mg, 10mg, 1mg, 2... |
| C4X-1085105 | -   | Ambroxol impurity 05                         | C14H17Br2N3O2     | 419.11     | 100mg, 10mg, 25mg, ... |
| C4X-1095117 | -   | Amlodipine Impurity 117                      | C20H24ClN3O6      | 437.87     | 100mg, 10mg, 200mg...  |
| C4X-2924116 | -   | Mirogabalin Impurity 116                     | C12H18N2O3        | 238.28     | 100mg, 150mg, 20mg...  |
| C4X-2144147 | -   | Relebactam Impurity 147                      | C12H20N4O3        | 268.31     | 100mg, 10mg, 200mg...  |
| C4X-204533  | -   | Osimertinib Impurity 33                      | C56H66N14O4 2*... | 999.21 ... | 100mg, 10mg, 200mg...  |
| C4X-18444   | -   | Amphotericin B EP Impurity C                 | C49H77NO17        | 952.13     | 100mg, 10mg, 15mg, ... |
| C4X-101017  | -   | Acyclovir EP Impurity Q                      | 2*C9H13N5O4       | 2*255.23   | 100mg, 10mg, 15mg, ... |
| C4X-101018  | -   | Aciclovir EP Impurity R                      | C17H22N10O6       | 462.42     | 100mg, 10mg, 15mg, ... |
| C4X-141547  | -   | Metoclopramide impurity 47                   | C14H21ClN4O3      | 328.79     | 100mg, 10mg, 20mg, ... |
| C4X-226060  | -   | Baricitinib Impurity 60                      | C16H17N7O5S       | 419.42     | 100mg, 10mg, 200mg...  |
| CCAD301383  | -   | Beclomethasone Dipropionate-d10              | C28H27D10ClO7     | 531.10     | 10mg, 1mg              |
| C4X-147424  | -   | Beclomethasone Dipropionate-d6               | C28H31D6ClO7      | 527.08     | 100mg, 10mg, 150mg...  |
| C4X-227520  | -   | Moxidectin EP Impurity B                     | C36H51NO8         | 625.79     | 100mg, 10mg, 15mg, ... |
| C4X-198214  | -   | Ivermectin EP Impurity E                     | C49H76O14         | 889.12     | 100mg, 10mg, 120mg...  |
| C4X-29385   | -   | Eravacycline Impurity 5(TP-6773?             | C27H31FN4O7       | 542.56     | 100mg, 10mg, 1mg, 2... |
| C4X-124528  | -   | Cefuroxime sodium GSK ring opening impurity  | C15H18N4O7S       | 398.39     | 100mg, 10mg, 20mg, ... |
| C4X-16245   | -   | Drospirenone EP Impurity F                   | C24H32O3          | 368.51     | 100mg, 105mg, 10mg...  |
| C4X-13767   | -   | Ubidecarenone (Coenzyme Q10) EP Impurity ... | 4*C49H74O4        | 4*727.11   | 100mg, 10mg, 1mg, 2... |
| C4X-1348150 | -   | Avibactam Impurity 150                       | C13H25N7O8S C...  | 439.44 ... | 100mg, 10mg, 20mg, ... |
| C4X-29382   | -   | Eravacycline Impurity 2(TP-2905?             | C27H31FN4O9       | 574.55     | 100mg, 10mg, 200mg...  |
| C4X-109676  | -   | Azilsartan Impurity 76                       | C10H10O7          | 242.18     | 100mg, 10mg, 150mg...  |
| C4X-204581  | -   | Osimertinib Impurity 81                      | C27H30N8O3        | 514.58     | 100mg, 10mg, 200mg...  |
| C4X-208139  | -   | Teprenone impurity 39                        | C23H38O2          | 346.55     | 100mg, 10mg, 130mg...  |
| C4X-116556  | -   | Dexamethasone Phosphate Diester              | C44H57F2O12P      | 846.89     | 100mg, 10mg, 15mg, ... |
| C4X-116522  | -   | Dexamethasone Sodium Phosphate EP Impur...   | C22H30FO8P        | 472.44     | 100mg, 10mg, 110mg...  |