**Preface to Table of** **Example UCUM Codes for Electronic Messaging**

Attached is an enumeration of The Unified Code for Units of Measure (UCUM), designed to make it clear what the UCUM syntax would produce for specific unit patterns in electronic communication. This early version, composed in a relatively short time frame, is based on content provided by Intermountain Healthcare, from a National Library of Medicine/Regenstrief Institute project that is analyzing raw units from more than 23 laboratory sources and their translation to UCUM (<http://unitsofmeasure.org/>) and from the HL7 table of units. In this version we have not included all of the content from all of these sources. Specifically for this version, we excluded units for which we could not quickly find definitions or clear patterns of usage, units of measure that we believed would only be used in pharmacy dispensing, and units used for purely clinical reporting (e.g. cigarette pack-years). We have included most of the pure metric units that were in the source table whether they apply directly to the laboratory or not because they will be generally useful and because we could not always be sure what should be excluded.

We have included a row number in the first column of the table. Please use this number when suggesting changes or identifying problems with a given term. This number has no significance beyond identifying a unique row in this table. In particular, it does not officially denote a UCUM code. The table is ordered alphabetically by the content of the column Description of the Unit.

Some details of the UCUM syntax follow, but for a more complete explanation than this please refer to the full UCUM specification at <http://unitsofmeasure.org/>.

The UCUM codes that you see in the table are mixed-case ASCII text. The standard metric units all have their usual mixed-case representation, so milligram per deciliter is portrayed in UCUM as mg/dL. US, British, and other special units are usually enclosed in square brackets, e.g. inches is [in\_i] (inches international) — the “i” is needed because the British inch and the US inch were slightly different until about 1980 when all parties agreed the international inch. In UCUM a dot (.) means multiply, a number to the right of a string means a power, and the divisor sign (/) means divide. So m2 means meter squared.

Strings that are often included in units of measure but are adornments for human reading and that are not formally units of measure are enclosed in curlicue brackets {}. For example, mg/mol{creat} means milligram per mole of creatinine.

UCUM does not formally specify what to put inside of the curlicue brackets except to insist there be no spaces, because spaces will break the parser and the UCUM units converter. In principle, users could adjust the contents of any such curlicue brackets because they aren’t a formal part of UCUM. In this table, we encourage the use of the same string consistently within curlicue brackets, e.g. {creat} for creatinine and {Hb} for hemoglobin. However, this is not an absolute constraint of UCUM, and, when needed, users may adjust the content within the curlicue brackets.

*Beginning with Version 1.4, the Revisions Log is now an Appendix at the end of the document.*

**Version History (see revisions log in Appendix)**

* Version 1.5, Released 06/2020
* Version 1.4, Released 07/18/2016
* Version 1.3, Released 09/26/2014
* Version 1.2, Released 02/06/2014
* Version 1.1, Released 10/04/2011
* Version 1.0, Released 09/23/2011

**Table of** **Example UCUM Codes for Electronic Messaging, Version 1.5**

| Row # (not a code) | UCUM\_CODE | Description of the Unit (using UCUM descriptions where they exist) |
| --- | --- | --- |
| 1 | 10.L/min | **10 liter per minute** |
| 2 | 10.L/(min.m2) | **10 liter per minute per square meter** |
| 3 | 10.uN.s/(cm5.m2) | **10 micronewton second per centimeter to the fifth power per square meter** |
| 4 | 10\*4/uL | **10 thousand per microliter** |
| 5 | 10\*8 | **100 million** |
| 6 | 24.h | **24 hour** |
| 7 | {absorbance} | **absorbance** |
| 8 | {activity} | **activity** |
| 9 | [AU] | **allergy unit** |
| 10 | {AHF'U} | **American Hospital Formulary unit** |
| 11 | A | **ampere** |
| 12 | A/m | **ampere per meter** |
| 13 | [arb'U] | **arbitrary unit** |
| 14 | [arb'U]/mL | **arbitrary unit per milliliter** |
| 15 | {ARU} | **aspirin response unit** |
| 16 | atm | **atmosphere** |
| 17 | ag/{cell} | **attogram per cell** |
| 18 | bar | **bar** |
| 19 | Bq | **Becquerel** |
| 20 | [beth'U] | **Bethesda unit** |
| 21 | 10\*9/L | **billion per liter** |
| 22 | 10\*9/uL | **billion per microliter** |
| 23 | 10\*9/mL | **billion per milliliter** |
| 24 | {binding\_index} | **binding index** |
| 25 | [bdsk'U] | **Bodansky unit** |
| ◊26 | {breaths}/min | **breaths per minute** |
| 27 | {CAG\_repeats} | **CAG trinucleotide repeats** |
| 28 | cal | **calorie** |
| 29 | {cells} | **cells** |
| 30 | {cells}/[HPF] | **cells per high power field** |
| 31 | {cells}/uL | **cells per microliter** |
| 32 | cg | **centigram** |
| 33 | cL | **centiliter** |
| 34 | cm | **centimeter** |
| 35 | cm[Hg] | **centimeter of mercury** |
| 36 | cm[H2O] | **centimeter of water** |
| 37 | cm[H2O]/L/s | **centimeter of water per liter per second** |
| 38 | cm[H2O]/s/m | **centimeter of water per second per meter** |
| ◊39 | cm/s | **centimeter per second** |
| 40 | cP | **centipoise** |
| 41 | cSt | **centistoke** |
| 42 | {delta\_OD} | **change in (delta) optical density** |
| 43 | {clock\_time} | **clock time e.g 12:30PM** |
| 44 | [CFU] | **colony forming unit** |
| 45 | [CFU]/L | **colony forming unit per liter** |
| 46 | [CFU]/mL | **colony forming unit per milliliter** |
| 47 | {CAE'U} | **complement activity enzyme unit** |
| 48 | {CH100'U} | **complement CH100 unit** |
| 49 | {copies} | **copies** |
| 50 | {copies}/ug | **copies per microgram** |
| 51 | {copies}/mL | **copies per milliliter** |
| 52 | {count} | **count** |
| 53 | {CPM} | **counts per minute** |
| 54 | {CPM}/10\*3{cell} | **counts per minute per thousand cells** |
| ◊55 | cm3 | **cubic centimeter** |
| 56 | [cin\_i] | **cubic inch (international)** |
| 57 | m3/s | **cubic meter per second** |
| ◊58 | {Ct\_value} | **Cycle threshold value** |
| 59 | d | **day** |
| ◊60 | d/(7.d) | **day per 7 day** |
| ◊61 | d/wk | **days per week** |
| 62 | dB | **decibel** |
| 63 | dg | **decigram** |
| 64 | dL | **deciliter** |
| 65 | dm | **decimeter** |
| 66 | deg | **degree (plane angle)** |
| 67 | Cel | **degree Celsius** |
| 68 | [degF] | **degree Fahrenheit** |
| 69 | K | **degree Kelvin** |
| 70 | K/W | **degree Kelvin per Watt** |
| 71 | deg/s | **degree per second** |
| 72 | daL/min | **dekaliter per minute** |
| 73 | daL/min/m2 | **dekaliter per minute per square meter** |
| 74 | {dilution} | **dilution** |
| ◊75 | [diop] | **diopter** |
| 76 | [dr\_av] | **dram (US and British)** |
| 77 | [drp] | **drop (1/12 milliliter)** |
| 78 | dyn.s/cm | **dyne second per centimeter** |
| 79 | dyn.s/(cm.m2) | **dyne second per centimeter per square meter** |
| 80 | {Ehrlich'U} | **Ehrlich unit** |
| 81 | {Ehrlich'U}/100.g | **Ehrlich unit per 100 gram** |
| 82 | {Ehrlich'U}/(2.h) | **Ehrlich unit per 2 hour** |
| 83 | {Ehrlich'U}/d | **Ehrlich unit per day** |
| 84 | {Ehrlich'U}/dL | **Ehrlich unit per deciliter** |
| 85 | {EIA\_index} | **EIA index** |
| 86 | {EIA\_titer} | **EIA titer** |
| 87 | {EIA'U} | **EIA unit** |
| 88 | {EIA'U}/U | **EIA unit per enzyme unit** |
| 89 | {EV} | **EIA value** |
| 90 | eV | **electron Volt** |
| 91 | {ELISA'U} | **ELISA unit** |
| 92 | U | **enzyme unit** |
| 93 | U/10 | **enzyme unit per 10** |
| 94 | U/10\*10 | **enzyme unit per 10 billion** |
| 95 | U/10\*10{cells} | **enzyme unit per 10 billion cells** |
| 96 | U/(10.g){feces} | **enzyme unit per 10 gram of feces** |
| 97 | U/(12.h) | **enzyme unit per 12 hour** |
| 98 | U/(2.h) | **enzyme unit per 2 hour** |
| 99 | U/(24.h) | **enzyme unit per 24 hour** |
| 100 | U/10\*9 | **enzyme unit per billion** |
| 101 | U/d | **enzyme unit per day** |
| 102 | U/dL | **enzyme unit per deciliter** |
| 103 | U/g | **enzyme unit per gram** |
| 104 | U/g{creat} | **enzyme unit per gram of creatinine** |
| 105 | U/g{Hb} | **enzyme unit per gram of hemoglobin** |
| 106 | U/g{protein} | **enzyme unit per gram of protein** |
| 107 | U/h | **enzyme unit per hour** |
| 108 | U/kg{Hb} | **enzyme unit per kilogram of hemoglobin** |
| 109 | U/L | **enzyme unit per liter** |
| 110 | U{25Cel}/L | **enzyme unit per liter at 25 deg Celsius** |
| 111 | U{37Cel}/L | **enzyme unit per liter at 37 deg Celsius** |
| 112 | U/mL | **enzyme unit per milliliter** |
| 113 | U/mL{RBCs} | **enzyme unit per milliliter of red blood cells** |
| 114 | U/mmol{creat} | **enzyme unit per millimole of creatinine** |
| 115 | U/10\*6 | **enzyme unit per million** |
| 116 | U/min | **enzyme unit per minute** |
| 117 | U/s | **enzyme unit per second** |
| 118 | U/10\*12 | **enzyme unit per trillion** |
| 119 | U/10\*12{RBCs} | **enzyme unit per trillion red blood cells** |
| 120 | eq | **equivalent** |
| 121 | eq/L | **equivalent per liter** |
| 122 | eq/umol | **equivalent per micromole** |
| 123 | eq/mL | **equivalent per milliliter** |
| 124 | eq/mmol | **equivalent per millimole** |
| 125 | erg | **erg** |
| 126 | F | **Farad** |
| ◊127 | [ft\_us]/[ft\_us] | **feet (US) per feet (US)** |
| 128 | fg | **femtogram** |
| 129 | fL | **femtoliter** |
| 130 | fm | **femtometer** |
| 131 | fmol | **femtomole** |
| 132 | fmol/g | **femtomole per gram** |
| 133 | fmol/L | **femtomole per liter** |
| 134 | fmol/mg | **femtomole per milligram** |
| 135 | fmol/mg{cyt\_prot} | **femtomole per milligram of cytosol protein** |
| 136 | fmol/mg{prot} | **femtomole per milligram of protein** |
| 137 | fmol/mL | **femtomole per milliliter** |
| 138 | [foz\_us] | **fluid ounce (US)** |
| 139 | {FIU} | **fluorescent intensity unit** |
| 140 | [ft\_i] | **foot (international)** |
| 141 | {fraction} | **fraction** |
| 142 | [Ch] | **French (catheter gauge)** |
| 143 | {GAA\_repeats} | **GAA trinucleotide repeats** |
| 144 | [gal\_us] | **gallon (US)** |
| 145 | {genomes}/mL | **genomes per milliliter** |
| 146 | {Globules}/[HPF] | **globules (drops) per high power field** |
| 147 | g | **gram** |
| 148 | g.m | **gram meter** |
| 149 | g.m/{beat} | **gram meter per heart beat** |
| 150 | g{creat} | **gram of creatinine** |
| 151 | g{Hb} | **gram of hemoglobin** |
| 152 | g{total\_nit} | **gram of total nitrogen** |
| 153 | g{total\_prot} | **gram of total protein** |
| 154 | g{wet\_tissue} | **gram of wet tissue** |
| 155 | g/kg/(8.h) | **gram per kilogram per 8 hour** |
| 156 | g/(100.g) | **gram per 100 gram** |
| 157 | g/(12.h) | **gram per 12 hour** |
| 158 | g/(24.h) | **gram per 24 hour** |
| 159 | g/(3.d) | **gram per 3 days** |
| 160 | g/(4.h) | **gram per 4 hour** |
| 161 | g/(48.h) | **gram per 48 hour** |
| 162 | g/(5.h) | **gram per 5 hour** |
| 163 | g/(6.h) | **gram per 6 hour** |
| 164 | g/(72.h) | **gram per 72 hour** |
| 165 | g/(8.h){shift} | **gram per 8 hour shift** |
| 166 | g/cm3 | **gram per cubic centimeter** |
| 167 | g/d | **gram per day** |
| 168 | g/dL | **gram per deciliter** |
| 169 | g/g | **gram per gram** |
| 170 | g/g{creat} | **gram per gram of creatinine** |
| 171 | g/g{globulin} | **gram per gram of globulin** |
| 172 | g/g{tissue} | **gram per gram of tissue** |
| 173 | g/h | **gram per hour** |
| 174 | g/h/m2 | **gram per hour per square meter** |
| 175 | g/kg | **gram per kilogram** |
| 176 | g/kg/(8.h){shift} | **gram per kilogram per 8 hour shift** |
| 177 | g/kg/d | **gram per kilogram per day** |
| 178 | g/kg/h | **gram per kilogram per hour** |
| 179 | g/kg/min | **gram per kilogram per minute** |
| 180 | g/L | **gram per liter** |
| 181 | g/mg | **gram per milligram** |
| 182 | g/mL | **gram per milliliter** |
| 183 | g/mmol | **gram per millimole** |
| 184 | g/min | **gram per minute** |
| 185 | g/mol{creat} | **gram per mole of creatinine** |
| 186 | g/{specimen} | **gram per specimen** |
| ◊187 | g/cm2 | **gram per square centimeter** |
| 188 | g/m2 | **gram per square meter** |
| 189 | g/{total\_output} | **gram per total output** |
| 190 | g/{total\_weight} | **gram per total weight** |
| 191 | Gy | **Gray** |
| 192 | {beats}/min | **heart beats per minute** |
| 193 | H | **Henry** |
| 194 | Hz | **Hertz** |
| 195 | [HPF] | **high power field** |
| 196 | h | **hour** |
| ◊197 | h/d | **hour per day** |
| ◊198 | h/wk | **hour per week** |
| 199 | [APL'U]/mL | **IgA anticardiolipin unit per milliliter\*\*** |
| 200 | [APL'U] | **IgA anticardiolipin unit\*\*** |
| 201 | {APS'U} | **IgA antiphosphatidylserine unit** |
| 202 | [GPL'U]/mL | **IgG anticardiolipin unit per milliliter\*\*** |
| 203 | [GPL'U] | **IgG anticardiolipin unit\*\*** |
| 204 | {GPS'U} | **IgG antiphosphatidylserine unit** |
| 205 | [MPL'U]/mL | **IgM anticardiolipin unit per milliliter\*\*** |
| 206 | [MPL'U] | **IgM anticardiolipin unit\*\*** |
| 207 | {MPS'U} | IgM antiphosphatidylserine unit |
| 208 | {MPS'U}/mL | IgM antiphosphatidylserine unit per milliliter |
| 209 | {ImmuneComplex'U} | **immune complex unit** |
| 210 | {ISR} | **immune status ratio** |
| 211 | {IFA\_index} | **immunofluorescence assay index** |
| 212 | {IFA\_titer} | **Immunofluorescence assay titer** |
| 213 | [in\_i] | **inch (international)** |
| 214 | [in\_i'H2O] | **inch (international) of water** |
| ◊215 | [in\_us] | **inches (US)** |
| 216 | {index\_val} | **index value** |
| ◊217 | {index} | **index value** |
| 218 | {HA\_titer} | **influenza hemagglutination titer** |
| 219 | {INR} | **international normalized ratio** |
| 220 | [IU] | **international unit** |
| 221 | [IU]/(2.h) | **international unit per 2 hour** |
| 222 | [IU]/(24.h) | **international unit per 24 hour** |
| 223 | [IU]/10\*9{RBCs} | **international unit per billion red blood cells** |
| 224 | [IU]/d | **international unit per day** |
| 225 | [IU]/dL | **international unit per deciliter** |
| 226 | [IU]/g | **international unit per gram** |
| 227 | [IU]/g{Hb} | **international unit per gram of hemoglobin** |
| 228 | [IU]/h | **international unit per hour** |
| 229 | [IU]/kg | **international unit per kilogram** |
| 230 | [IU]/kg/d | **international unit per kilogram per day** |
| 231 | [IU]/L | **international unit per liter** |
| 232 | [IU]/L{37Cel} | **international unit per liter at 37 degrees Celsius** |
| 233 | [IU]/mg{creat} | **international unit per milligram of creatinine** |
| 234 | [IU]/mL | **international unit per milliliter** |
| 235 | [IU]/min | **international unit per minute** |
| 236 | J | **joule** |
| 237 | J/L | **joule per liter** |
| 238 | {JDF'U} | **Juvenile Diabetes Foundation unit** |
| 239 | {JDF'U}/L | **Juvenile Diabetes Foundation unit per liter** |
| 240 | {KCT'U} | **kaolin clotting time** |
| 241 | kat | **katal** |
| 242 | kat/kg | **katal per kilogram** |
| 243 | kat/L | **katal per liter** |
| 244 | kU | **kilo enzyme unit** |
| 245 | kU/g | **kilo enzyme unit per gram** |
| 246 | kU/L | **kilo enzyme unit per liter** |
| 247 | kU/L{class} | **kilo enzyme unit per liter class** |
| 248 | kU/mL | **kilo enzyme unit per milliliter** |
| 249 | k[IU]/L | **kilo international unit per liter** |
| 250 | k[IU]/mL | **kilo international unit per milliliter** |
| 251 | kcal | **kilocalorie** |
| ◊252 | kcal/(24.h) | **kilocalorie per 24 hour** |
| 253 | kcal/d | **kilocalorie per day** |
| 254 | kcal/h | **kilocalorie per hour** |
| 255 | kcal/kg/(24.h) | **kilocalorie per kilogram per 24 hour** |
| 256 | kcal/[oz\_av] | **kilocalorie per ounce (US & British)** |
| 257 | kg | **kilogram** |
| 258 | kg.m/s | **kilogram meter per second** |
| 259 | kg/m3 | **kilogram per cubic meter** |
| 260 | kg/h | **kilogram per hour** |
| 261 | kg/L | **kilogram per liter** |
| 262 | kg/min | **kilogram per minute** |
| 263 | kg/mol | **kilogram per mole** |
| 264 | kg/s | **kilogram per second** |
| 265 | kg/(s.m2) | **kilogram per second per square meter** |
| 266 | kg/m2 | **kilogram per square meter** |
| 267 | kL | **kiloliter** |
| 268 | km | **kilometer** |
| 269 | kPa | **kilopascal** |
| 270 | ks | **kilosecond** |
| 271 | [ka'U] | **King Armstrong unit** |
| 272 | {KRONU'U}/mL | **Kronus unit per milliliter** |
| 273 | [knk'U] | **Kunkel unit** |
| 274 | L | **liter** |
| 275 | L/(24.h) | **liter per 24 hour** |
| 276 | L/(8.h) | **liter per 8 hour** |
| 277 | L/d | **liter per day** |
| 278 | L/h | **liter per hour** |
| 279 | L/kg | **liter per kilogram** |
| 280 | L/L | **liter per liter** |
| 281 | L/min | **liter per minute** |
| 282 | L/min/m2 | **liter per minute per sqaure meter** |
| ◊283 | L/(min.m2) | **liter per minute per square meter** |
| 284 | L/s | **liter per second** |
| 285 | L/s/s2 | **liter per second per square second** |
| 286 | {Log\_copies}/mL | **log (base 10) copies per milliliter** |
| 287 | {Log\_IU} | **log (base 10) international unit** |
| 288 | {Log\_IU}/mL | **log (base 10) international unit per milliliter** |
| 289 | {Log} | **log base 10** |
| 290 | [LPF] | **low power field** |
| 291 | lm | **lumen** |
| 292 | lm.m2 | **lumen square meter** |
| 293 | {Lyme\_index\_value} | **Lyme index value** |
| 294 | [mclg'U] | **Maclagan unit** |
| 295 | Ms | **megasecond** |
| ◊296 | [MET].min/wk | **metabolic equivalent minute per week** |
| 297 | m | **meter** |
| 298 | m/s | **meter per second** |
| 299 | m/s2 | **meter per square second** |
| 300 | t | **metric ton** |
| 301 | uU/g | **micro enzyme unit per gram** |
| 302 | uU/L | **micro enzyme unit per liter** |
| 303 | uU/mL | **micro enzyme unit per milliliter** |
| 304 | u[IU] | **micro international unit** |
| 305 | u[IU]/mL | **micro international unit per milliliter** |
| 306 | ueq | **microequivalent** |
| 307 | ueq/L | **microequivalent per liter** |
| 308 | ueq/mL | **microequivalent per milliliter** |
| 309 | ug | **microgram** |
| 310 | ug/g{feces} | **microgram per gram of feces** |
| 311 | ug{FEU}/mL | **microgram fibrinogen equivalent unit per milliliter** |
| 312 | ug/(100.g) | **microgram per 100 gram** |
| 313 | ug/(24.h) | **microgram per 24 hour** |
| 314 | ug/(8.h) | **microgram per 8 hour** |
| 315 | ug/m3 | **microgram per cubic meter** |
| 316 | ug/d | **microgram per day** |
| 317 | ug/dL | **microgram per deciliter** |
| 318 | ug/dL{RBCs} | **microgram per deciliter of red blood cells** |
| 319 | ug/g | **microgram per gram** |
| 320 | ug/g{creat} | **microgram per gram of creatinine** |
| 321 | ug/g{dry\_tissue} | **microgram per gram of dry tissue** |
| 322 | ug/g{dry\_wt} | **microgram per gram of dry weight** |
| 323 | ug/g{hair} | **microgram per gram of hair** |
| 324 | ug/g{Hb} | **microgram per gram of hemoglobin** |
| 325 | ug/g{tissue} | **microgram per gram of tissue** |
| 326 | ug/h | **microgram per hour** |
| 327 | ug/kg | **microgram per kilogram** |
| 328 | ug/kg/(8.h) | **microgram per kilogram per 8 hour** |
| 329 | ug/kg/d | **microgram per kilogram per day** |
| 330 | ug/kg/h | **microgram per kilogram per hour** |
| 331 | ug/kg/min | **microgram per kilogram per minute** |
| 332 | ug/L | **microgram per liter** |
| 333 | ug/L{RBCs} | **microgram per liter of red blood cells** |
| 334 | ug/L/(24.h) | **microgram per liter per 24 hour** |
| 335 | ug/mg | **microgram per milligram** |
| 336 | ug/mg{creat} | **microgram per milligram of creatinine** |
| 337 | ug/mL | **microgram per milliliter** |
| 338 | ug/mL{class} | **microgram per milliliter class** |
| 339 | ug/mL{eqv} | **microgram per milliliter equivalent** |
| 340 | ug/mmol | **microgram per millimole** |
| 341 | ug/mmol{creat} | **microgram per millimole of creatinine** |
| 342 | ug/min | **microgram per minute** |
| 343 | ug/ng | **microgram per nanogram** |
| 344 | ug/{specimen} | **microgram per specimen** |
| 345 | ug/[sft\_i] | **microgram per square foot (international)** |
| 346 | ug/m2 | **microgram per square meter** |
| 347 | u[IU]/L | **microinternational unit per liter** |
| 348 | ukat | **microkatal** |
| 349 | uL | **microliter** |
| 350 | uL/(2.h) | **microliter per 2 hour** |
| 351 | uL/h | **microliter per hour** |
| 352 | um | **micrometer** |
| 353 | umol | **micromole** |
| 354 | umol{BCE}/mol | **micromole bone collagen equivalent per mole** |
| 355 | umol/(2.h) | **micromole per 2 hour** |
| 356 | umol/(24.h) | **micromole per 24 hour** |
| 357 | umol/(8.h) | **micromole per 8 hour** |
| 358 | umol/d | **micromole per day** |
| 359 | umol/dL | **micromole per deciliter** |
| 360 | umol/dL{GF} | **micromole per deciliter of glomerular filtrate** |
| 361 | umol/g | **micromole per gram** |
| 362 | umol/g{creat} | **micromole per gram of creatinine** |
| 363 | umol/g{Hb} | **micromole per gram of hemoglobin** |
| 364 | umol/h | **micromole per hour** |
| 365 | umol/kg | **micromole per kilogram** |
| 366 | umol/kg{feces} | **micromole per kilogram of feces** |
| 367 | umol/L | **micromole per liter** |
| 368 | umol/L{RBCs} | **micromole per liter of red blood cells** |
| 369 | umol/L/h | **micromole per liter per hour** |
| 370 | umol/umol | **micromole per micromole** |
| 371 | umol/umol{creat} | **micromole per micromole of creatinine** |
| 372 | umol/mg | **micromole per milligram** |
| 373 | umol/mg{creat} | **micromole per milligram of creatinine** |
| 374 | umol/mL | **micromole per milliliter** |
| 375 | umol/mL/min | **micromole per milliliter per minute** |
| 376 | umol/mmol | **micromole per millimole** |
| 377 | umol/mmol{creat} | **micromole per millimole of creatinine** |
| ◊378 | umol/10\*6{RBC} | **micromole per million red blood cell** |
| 379 | umol/min | **micromole per minute** |
| 380 | umol/min/g | **micromole per minute per gram** |
| 381 | umol/min/g{mucosa} | **micromole per minute per gram of mucosa** |
| 382 | umol/min/g{prot} | **micromole per minute per gram of protein** |
| 383 | umol/min/L | **micromole per minute per liter** |
| 384 | umol/mol | **micromole per mole** |
| 385 | umol/mol{creat} | **micromole per mole of creatinine** |
| 386 | umol/mol{Hb} | **micromole per mole of hemoglobin** |
| 387 | um/s | **microns per second** |
| 388 | uOhm | **microOhm** |
| 389 | us | **microsecond** |
| 390 | uV | **microvolt** |
| 391 | [mi\_i] | **mile (international)** |
| 392 | mU/g | **milli enzyme unit per gram** |
| 393 | mU/mL | **milli enzyme unit per milliliter** |
| 394 | mU/mL/min | **milli enzyme unit per milliliter per minute** |
| 395 | mU/mmol{creat} | **milli enzyme unit per millimole of creatinine** |
| 396 | mU/mmol{RBCs} | **milli enzyme unit per millimole of red blood cells** |
| 397 | m[IU]/mL | **milli international unit per milliliter** |
| 398 | mU/g{Hb} | **milli enzyme unit per gram of hemoglobin** |
| 399 | mU/g{prot} | **milli enzyme unit per gram of protein** |
| 400 | mU/L | **milli enzyme unit per liter** |
| 401 | mU/mg | **milli enzyme unit per milligram** |
| 402 | mU/mg{creat} | **milli enzyme unit per milligram of creatinine** |
| 403 | m[IU]/L | **milli international unit per liter** |
| 404 | mA | **milliampere** |
| 405 | mbar | **millibar** |
| 406 | mbar/L/s | **millibar per liter per second** |
| 407 | mbar.s/L | **millibar second per liter** |
| 408 | meq | **milliequivalent** |
| 409 | meq/(2.h) | **milliequivalent per 2 hour** |
| 410 | meq/(24.h) | **milliequivalent per 24 hour** |
| 411 | meq/(8.h) | **milliequivalent per 8 hour** |
| 412 | meq/d | **milliequivalent per day** |
| 413 | meq/dL | **milliequivalent per deciliter** |
| 414 | meq/g | **milliequivalent per gram** |
| 415 | meq/g{creat} | **milliequivalent per gram of creatinine** |
| 416 | meq/h | **milliequivalent per hour** |
| 417 | meq/kg | **milliequivalent per kilogram** |
| 418 | meq/kg/h | **milliequivalent per kilogram per hour** |
| 419 | meq/L | **milliequivalent per liter** |
| 420 | meq/mL | **milliequivalent per milliliter** |
| 421 | meq/min | **milliequivalent per minute** |
| 422 | meq/{specimen} | **milliequivalent per specimen** |
| 423 | meq/m2 | **milliequivalent per square meter** |
| 424 | meq/{total\_volume} | **milliequivalent per total volume** |
| 425 | mg | **milligram** |
| 426 | mg{FEU}/L | **milligram fibrinogen equivalent unit per liter** |
| 427 | mg/(10.h) | **milligram per 10 hour** |
| 428 | mg/(12.h) | **milligram per 12 hour** |
| 429 | mg/(2.h) | **milligram per 2 hour** |
| 430 | mg/(24.h) | **milligram per 24 hour** |
| 431 | mg/(6.h) | **milligram per 6 hour** |
| 432 | mg/(72.h) | **milligram per 72 hour** |
| 433 | mg/(8.h) | **milligram per 8 hour** |
| 434 | mg/{collection} | **milligram per collection** |
| 435 | mg/m3 | **milligram per cubic meter** |
| 436 | mg/d | **milligram per day** |
| 437 | mg/d/{1.73\_m2} | **milligram per day per 1.73 square meter** |
| 438 | mg/dL | **milligram per deciliter** |
| 439 | mg/dL{RBCs} | **milligram per deciliter of red blood cells** |
| 440 | mg/g | **milligram per gram** |
| 441 | mg/g{creat} | **milligram per gram of creatinine** |
| 442 | mg/g{dry\_tissue} | **milligram per gram of dry tissue** |
| 443 | mg/g{feces} | **milligram per gram of feces** |
| 444 | mg/g{tissue} | **milligram per gram of tissue** |
| 445 | mg/g{wet\_tissue} | **milligram per gram of wet tissue** |
| 446 | mg/h | **milligram per hour** |
| 447 | mg/kg | **milligram per kilogram** |
| 448 | mg/kg/(8.h) | **milligram per kilogram per 8 hour** |
| 449 | mg/kg/d | **milligram per kilogram per day** |
| 450 | mg/kg/h | **milligram per kilogram per hour** |
| 451 | mg/kg/min | **milligram per kilogram per minute** |
| 452 | mg/L | **milligram per liter** |
| 453 | mg/L{RBCs} | **milligram per liter of red blood cells** |
| 454 | mg/mg | **milligram per milligram** |
| 455 | mg/mg{creat} | **milligram per milligram of creatinine** |
| 456 | mg/mL | **milligram per milliliter** |
| 457 | mg/mmol | **milligram per millimole** |
| 458 | mg/mmol{creat} | **milligram per millimole of creatinine** |
| 459 | mg/min | **milligram per minute** |
| 460 | mg/{specimen} | **milligram per specimen** |
| 461 | mg/m2 | **milligram per square meter** |
| 462 | mg/{total\_output} | **milligram per total output** |
| 463 | mg/{total\_volume} | **milligram per total volume** |
| 464 | mg/wk | **milligram per week** |
| 465 | mL | **milliliter** |
| 466 | mL{fetal\_RBCs} | **milliliter of fetal red blood cells** |
| 467 | mL/(10.h) | **milliliter per 10 hour** |
| 468 | mL/(12.h) | **milliliter per 12 hour** |
| 469 | mL/(2.h) | **milliliter per 2 hour** |
| 470 | mL/(24.h) | **milliliter per 24 hour** |
| 471 | mL/(4.h) | **milliliter per 4 hour** |
| 472 | mL/(5.h) | **milliliter per 5 hour** |
| 473 | mL/(6.h) | **milliliter per 6 hour** |
| 474 | mL/(72.h) | **milliliter per 72 hour** |
| 475 | mL/(8.h) | **milliliter per 8 hour** |
| 476 | mL/(8.h)/kg | **milliliter per 8 hour per kilogram** |
| 477 | mL/cm[H2O] | **milliliter per centimeter of water** |
| 478 | mL/d | **milliliter per day** |
| 479 | mL/dL | **milliliter per deciliter** |
| 480 | mL/{beat} | **milliliter per heart beat** |
| 481 | mL/{beat}/m2 | **milliliter per heart beat per square meter** |
| 482 | | |
| 483 | mL/kg | **milliliter per kilogram** |
| 484 | mL/kg/(8.h) | **milliliter per kilogram per 8 hour** |
| 485 | mL/kg/d | **milliliter per kilogram per day** |
| 486 | mL/kg/h | **milliliter per kilogram per hour** |
| 487 | mL/kg/min | **milliliter per kilogram per minute** |
| 488 | mL/mbar | **milliliter per millibar** |
| 489 | mL/mm | **milliliter per millimeter** |
| 490 | mL/min | **milliliter per minute** |
| 491 | mL/min/{1.73\_m2} | **milliliter per minute per 1.73 square meter** |
| 492 | mL/min/m2 | **milliliter per minute per square meter** |
| 493 | mL/s | **milliliter per second** |
| 494 | mL/[sin\_i] | **milliliter per square inch (international)** |
| 495 | mL/m2 | **milliliter per square meter** |
| 496 | mm | **millimeter** |
| 497 | mm[Hg] | **millimeter of mercury** |
| 498 | mm[H2O] | **millimeter of water** |
| 499 | mm/h | **millimeter per hour** |
| 500 | mm/min | **millimeter per minute** |
| 501 | mmol | **millimole** |
| 502 | mmol/(12.h) | **millimole per 12 hour** |
| 503 | mmol/(2.h) | **millimole per 2 hour** |
| 504 | mmol/(24.h) | **millimole per 24 hour** |
| 505 | mmol/(5.h) | **millimole per 5 hour** |
| 506 | mmol/(6.h) | **millimole per 6 hour** |
| 507 | mmol/(8.h) | **millimole per 8 hour** |
| 508 | mmol/d | **millimole per day** |
| 509 | mmol/dL | **millimole per deciliter** |
| 510 | mmol/{ejaculate} | **millimole per ejaculate** |
| 511 | mmol/g | **millimole per gram** |
| 512 | mmol/g{creat} | **millimole per gram of creatinine** |
| 513 | mmol/h | **millimole per hour** |
| 514 | mmol/h/mg{Hb} | **millimole per hour per milligram of hemoglobin** |
| 515 | mmol/h/mg{prot} | **millimole per hour per milligram of protein** |
| 516 | mmol/kg | **millimole per kilogram** |
| 517 | mmol/kg/(8.h) | **millimole per kilogram per 8 hour** |
| 518 | mmol/kg/d | **millimole per kilogram per day** |
| 519 | mmol/kg/h | **millimole per kilogram per hour** |
| 520 | mmol/kg/min | **millimole per kilogram per minute** |
| 521 | mmol/L | **millimole per liter** |
| 522 | mmol/L{RBCs} | **millimole per liter of red blood cells** |
| 523 | mmol/mmol | **millimole per millimole** |
| 524 | mmol/mmol{urea} | **millimole per millimole of urea** |
| 525 | mmol/mmol{creat} | **millimole per millmole of creatinine** |
| 526 | mmol/min | **millimole per minute** |
| 527 | mmol/mol | **millimole per mole** |
| 528 | mmol/mol{creat} | **millimole per mole of creatinine** |
| 529 | mmol/s/L | **millimole per second per liter** |
| 530 | mmol/{specimen} | **millimole per specimen** |
| 531 | mmol/m2 | **millimole per square meter** |
| 532 | mmol/{total\_vol} | **millimole per total volume** |
| 533 | 10\*6 | **million** |
| 534 | 10\*6.[CFU]/L | **million colony forming unit per liter** |
| 535 | 10\*6.[IU] | **million international unit** |
| 536 | 10\*6/(24.h) | **million per 24 hour** |
| 537 | 10\*6/kg | **million per kilogram** |
| 538 | 10\*6/L | **million per liter** |
| 539 | 10\*6/uL | **million per microliter** |
| 540 | 10\*6/mL | **million per milliliter** |
| 541 | mosm | **milliosmole** |
| 542 | mosm/kg | **milliosmole per kilogram** |
| 543 | mosm/L | **milliosmole per liter** |
| 544 | mPa | **millipascal** |
| 545 | mPa.s | **millipascal second** |
| 546 | ms | **millisecond** |
| 547 | mV | **millivolt** |
| ◊548 | mV/s | **millivolt per second** |
| 549 | {minidrop}/min | **minidrop per minute** |
| 550 | {minidrop}/s | **minidrop per second** |
| 551 | min | **minute** |
| ◊552 | min/d | **minute per day** |
| ◊553 | min/wk | **minute per week** |
| 554 | mol | **mole** |
| 555 | mol/m3 | **mole per cubic meter** |
| 556 | mol/kg | **mole per kilogram** |
| 557 | mol/kg/s | **mole per kilogram per second** |
| 558 | mol/L | **mole per liter** |
| 559 | mol/mL | **mole per milliliter** |
| 560 | mol/mol | **mole per mole** |
| 561 | mol/s | **mole per second** |
| 562 | {#}/{platelet} | **molecule per platelet** |
| 563 | mo | **month** |
| 564 | {mm/dd/yyyy} | **month-day-year** |
| 565 | {M.o.M} | **multiple of the median** |
| 566 | {mutation} | **mutation** |
| 567 | nU/mL | **nanoenzyme unit per milliliter** |
| 568 | nU/{RBC} | **nanoenzyme unit per red blood cell** |
| 569 | ng | **nanogram** |
| 570 | ng{FEU}/mL | **nanogram fibrinogen equivalent unit per milliliter** |
| 571 | ng/(24.h) | **nanogram per 24 hour** |
| 572 | ng/(8.h) | **nanogram per 8 hour** |
| 573 | ng/d | **nanogram per day** |
| 574 | ng/dL | **nanogram per deciliter** |
| 575 | ng/U | **nanogram per enzyme unit** |
| 576 | ng/g | **nanogram per gram** |
| 577 | ng/g{creat} | **nanogram per gram of creatinine** |
| 578 | ng/h | **nanogram per hour** |
| 579 | ng/kg | **nanogram per kilogram** |
| 580 | ng/kg/(8.h) | **nanogram per kilogram per 8 hour** |
| 581 | ng/kg/h | **nanogram per kilogram per hour** |
| 582 | ng/kg/min | **nanogram per kilogram per minute** |
| 583 | ng/L | **nanogram per liter** |
| 584 | ng/mg | **nanogram per milligram** |
| 585 | ng/mg{creat} | **nanogram per milligram of creatinine** |
| 586 | ng/mg{prot} | **nanogram per milligram of protein** |
| 587 | ng/mg/h | **nanogram per milligram per hour** |
| 588 | ng/mL{RBCs} | **nanogram per milliliter of red blood cells** |
| 589 | ng/mL/h | **nanogram per milliliter per hour** |
| 590 | ng/10\*6 | **nanogram per million** |
| 591 | ng/10\*6{RBCs} | **nanogram per million red blood cells** |
| 592 | ng/mL | **nanogram per millliiter** |
| 593 | ng/min | **nanogram per minute** |
| 594 | ng/s | **nanogram per second** |
| 595 | ng/m2 | **nanogram per square meter** |
| 596 | nkat | **nanokatal** |
| 597 | nL | **nanoliter** |
| 598 | nm | **nanometer** |
| 599 | nm/s/L | **nanometer per second per liter** |
| 600 | nmol | **nanomole** |
| 601 | nmol{BCE} | **nanomole bone collagen equivalent** |
| 602 | nmol{BCE}/L | **nanomole bone collagen equivalent per liter** |
| 603 | nmol/mmol{creat} | **nanomole bone collagen equivalent per millimole of creatinine** |
| 604 | nmol/mg{prot} | **nanomole of 1/2 cystine per milligram of protein** |
| 605 | nmol{ATP} | **nanomole of ATP** |
| 606 | nmol/(24.h) | **nanomole per 24 hour** |
| 607 | nmol/d | **nanomole per day** |
| 608 | nmol/dL | **nanomole per deciliter** |
| 609 | nmol/dL{GF} | **nanomole per deciliter of glomerular filtrate** |
| 610 | nmol/g | **nanomole per gram** |
| 611 | nmol/g{creat} | **nanomole per gram of creatinine** |
| 612 | nmol/g{dry\_wt} | **nanomole per gram of dry weight** |
| 613 | nmol/h/L | **nanomole per hour per liter** |
| 614 | nmol/h/mg{prot} | **nanomole per hour per milligram of protein** |
| 615 | nmol/h/mg{protein} | **nanomole per hour per milligram protein** |
| ◊616 | nmol/h/mL | **nanomole per hour per milliliter** |
| 617 | nmol/L | **nanomole per liter** |
| 618 | nmol/L{RBCs} | **nanomole per liter of red blood cells** |
| 619 | nmol/L/mmol{creat} | **nanomole per liter per millimole of creatinine** |
| 620 | nmol/m/mg{prot} | **nanomole per meter per milligram of protein** |
| 621 | nmol/umol{creat} | **nanomole per micromole of creatinine** |
| 622 | nmol/mg | **nanomole per milligram** |
| 623 | nmol/mg{creat} | **nanomole per milligram of creatinine** |
| 624 | nmol/mg{prot} | **nanomole per milligram of protein** |
| 625 | nmol/mg{prot}/h | **nanomole per milligram of protein per hour** |
| 626 | nmol/mg/h | **nanomole per milligram per hour** |
| 627 | nmol/mL | **nanomole per milliliter** |
| 628 | nmol/mL/h | **nanomole per milliliter per hour** |
| 629 | nmol/mL/min | **nanomole per milliliter per minute** |
| 630 | nmol/mmol | **nanomole per millimole** |
| 631 | nmol/mmol{creat} | **nanomole per millimole of creatinine** |
| 632 | nmol/min | **nanomole per minute** |
| 633 | nmol/min/mg{Hb} | **nanomole per minute per milligram of hemoglobin** |
| ◊634 | nmol/min/mg{prot} | **nanomole per minute per milligram of protein** |
| 635 | nmol/min/mg{protein} | **nanomole per minute per milligram protein** |
| 636 | nmol/min/mL | **nanomole per minute per milliliter** |
| 637 | nmol/min/10\*6{cells} | **nanomole per minute per million cells** |
| 638 | nmol/mol | **nanomole per mole** |
| ◊639 | nmol/mol{creat} | **nanomole per mole creatinine** |
| 640 | nmol/nmol | **nanomole per nanomole** |
| 641 | nmol/s | **nanomole per second** |
| 642 | nmol/s/L | **nanomole per second per liter** |
| 643 | ns | **nanosecond** |
| 644 | N | **Newton** |
| 645 | N.cm | **Newton centimeter** |
| 646 | N.s | **Newton second** |
| 647 | {#} | **number** |
| ◊648 | {#}/a | **number per annum (year)** |
| ◊649 | {#}/d | **number per day** |
| ◊650 | {#}/g | **number per gram** |
| 651 | {#}/[HPF] | **number per high power field** |
| 652 | {#}/L | **number per liter** |
| 653 | {#}/[LPF] | **number per low power field** |
| 654 | {#}/uL | **number per microliter** |
| 655 | {#}/mL | **number per milliliter** |
| 656 | {#}/min | **number per minute** |
| ◊657 | {#}/wk | **number per week** |
| 658 | Ohm | **Ohm** |
| 659 | Ohm.m | **Ohm meter** |
| 660 | 10\*5 | **one hundred thousand** |
| 661 | {OD\_unit} | **optical density unit** |
| 662 | osm | **osmole** |
| 663 | osm/kg | **osmole per kilogram** |
| 664 | osm/L | **osmole per liter** |
| 665 | [oz\_av] | **ounce (US and British)** |
| 666 | {Pan\_Bio'U} | **panbio unit** |
| 667 | [ppb] | **part per billion** |
| 668 | [ppm] | **part per million** |
| 669 | [ppm]{v/v} | **part per million in volume per volume** |
| 670 | [ppth] | **part per thousand** |
| 671 | [pptr] | **part per trillion** |
| 672 | Pa | **Pascal** |
| 673 | /10\*10 | **per 10 billion** |
| 674 | /10\*4{RBCs} | **per 10 thousand red blood cells** |
| 675 | /100 | **per 100** |
| 676 | /100{cells} | **per 100 cells** |
| 677 | /100{neutrophils} | **per 100 neutrophils** |
| 678 | /100{spermatozoa} | **per 100 spermatozoa** |
| 679 | /100{WBCs} | **per 100 white blood cells** |
| 680 | /[arb'U] | **per arbitrary unit** |
| 681 | /10\*9 | **per billion** |
| 682 | /cm[H2O] | **per centimeter of water** |
| 683 | /m3 | **per cubic meter** |
| 684 | /d | **per day** |
| 685 | /dL | **per deciliter** |
| 686 | /{entity} | **per entity** |
| 687 | /U | **per enzyme unit** |
| 688 | /g | **per gram** |
| 689 | /g{creat} | **per gram of creatinine** |
| 690 | /g{Hb} | **per gram of hemoglobin** |
| 691 | /g{tot\_nit} | **per gram of total nitrogen** |
| 692 | /g{tot\_prot} | **per gram of total protein** |
| 693 | /g{wet\_tis} | **per gram of wet tissue** |
| 694 | /[HPF] | **per high power field** |
| 695 | /h | **per hour** |
| 696 | /[IU] | **per international unit** |
| 697 | /kg | **per kilogram** |
| 698 | /kg{body\_wt} | **per kilogram of body weight** |
| 699 | /L | **per liter** |
| 700 | /[LPF] | **per low power field** |
| 701 | /uL | **per microliter** |
| 702 | /mg | **per milligram** |
| 703 | /mL | **per milliliter** |
| 704 | /mm | **per millimeter** |
| 705 | /mmol{creat} | **per millimole of creatinine** |
| 706 | /10\*6 | **per million** |
| 707 | /min | **per minute** |
| 708 | /mo | **per month** |
| 709 | /{OIF} | **per oil immersion field** |
| 710 | /s | **per second** |
| 711 | /m2 | **per square meter** |
| 712 | /10\*3 | **per thousand** |
| 713 | /10\*3{RBCs} | **per thousand red blood cells** |
| 714 | /10\*12 | **per trillion** |
| 715 | /10\*12{RBCs} | **per trillion red blood cells** |
| 716 | /(12.h) | **per twelve hour** |
| 717 | /wk | **per week** |
| 718 | /a | **per year** |
| 719 | % | **percent** |
| 720 | %{loss\_AChR} | **percent loss of acetylcholine receptor** |
| 721 | %{penetration} | **percent penetration** |
| 722 | %{abnormal} | **percent abnormal** |
| 723 | %{activity} | **percent activity** |
| 724 | %{aggregation} | **percent aggregation** |
| 725 | %{at\_60\_min} | **percent at 60 minute** |
| 726 | %{basal\_activity} | **percent basal activity** |
| 727 | %{binding} | **percent binding** |
| 728 | %{blockade} | **percent blockade** |
| 729 | %{blocked} | **percent blocked** |
| 730 | %{bound} | **percent bound** |
| 731 | %{breakdown} | **percent breakdown** |
| 732 | %{vol} | **percent by volume** |
| 733 | %{deficient} | **percent deficient** |
| 734 | %{dose} | **percent dose** |
| 735 | %{excretion} | **percent excretion** |
| 736 | %{Hb} | **percent hemoglobin** |
| 737 | %{hemolysis} | **percent hemolysis** |
| 738 | %{index} | **percent index** |
| 739 | %{inhibition} | **percent inhibition** |
| 740 | %{loss} | **percent loss** |
| 741 | %{lysis} | **percent lysis** |
| 742 | %{normal} | **percent normal** |
| 743 | %{pooled\_plasma} | **percent normal pooled plasma** |
| 744 | %{bacteria} | **percent of bacteria** |
| 745 | %{baseline} | **percent of baseline** |
| 746 | %{cells} | **percent of cells** |
| 747 | %{RBCs} | **percent of red blood cells** |
| 748 | %{WBCs} | **percent of white blood cells** |
| 749 | %{positive} | **percent positive** |
| 750 | %{reactive} | **percent reactive** |
| 751 | %{recovery} | **percent recovery** |
| 752 | %{reference} | **percent reference** |
| 753 | %{residual} | **percent residual** |
| ◊754 | %{response} | **percent response** |
| 755 | %{saturation} | **percent saturation** |
| 756 | %{total} | **percent total** |
| 757 | %{uptake} | **percent uptake** |
| 758 | %{viable} | **percent viable** |
| 759 | {percentile} | **percentile** |
| 760 | [pH] | **pH** |
| 761 | {phenotype} | **phenotype** |
| 762 | pA | **picoampere** |
| 763 | pg | **picogram** |
| 764 | pg/{cell} | **picogram per cell** |
| 765 | pg/dL | **picogram per deciliter** |
| 766 | pg/L | **picogram per liter** |
| 767 | pg/mg | **picogram per milligram** |
| 768 | pg/mg{creat} | **picogram per milligram of creatinine** |
| 769 | pg/mL | **picogram per milliliter** |
| ◊770 | pg/mL{sLT} | **picogram per milliliter sulfidoleukotrienes** |
| 771 | pg/mm | **picogram per millimeter** |
| 772 | pg/{RBC} | **picogram per red blood cell** |
| 773 | pkat | **picokatal** |
| 774 | pL | **picoliter** |
| 775 | pm | **picometer** |
| 776 | pmol | **picomole** |
| 777 | pmol/(24.h) | **picomole per 24 hour** |
| 778 | pmol/d | **picomole per day** |
| 779 | pmol/dL | **picomole per deciliter** |
| 780 | pmol/g | **picomole per gram** |
| ◊781 | pmol/h/mg{prot} | **picomole per hour per milligram of protein** |
| 782 | pmol/h/mL | **picomole per hour per milliliter** |
| 783 | pmol/L | **picomole per liter** |
| 784 | pmol/umol | **picomole per micromole** |
| 785 | pmol/umol{creat} | **picomole per micromole of creatinine** |
| 786 | pmol/mg{prot} | **picomole per milligram of protein** |
| 787 | pmol/mL | **picomole per milliliter** |
| 788 | pmol/mmol{creat} | **picomole per millimole of creatinine** |
| 789 | pmol/min | **picomole per minute** |
| 790 | pmol/min/mg{prot} | **picomole per minute per milligram of protein** |
| 791 | pmol/{RBC} | **picomole per red blood cell** |
| 792 | ps | **picosecond** |
| 793 | pT | **picotesla** |
| 794 | [pt\_us] | **pint (US)** |
| 795 | [lb\_av] | **pound (US and British)** |
| 796 | [psi] | **pound per square inch** |
| 797 | [qt\_us] | **quart (US)** |
| 798 | {ratio} | **Ratio** |
| 799 | {RBC}/uL | **red blood cell per microliter** |
| 800 | %{relative} | **relative percent** |
| 801 | {rel\_saturation} | **relative saturation** |
| ◊802 | {risk} | **Risk** |
| 803 | {Rubella\_virus} | **rubella virus** |
| 804 | {saturation} | **Saturation** |
| ◊805 | {score} | **Score** |
| 806 | s | **second** |
| 807 | s/{control} | **second per control** |
| 808 | {shift} | **Shift** |
| 809 | S | **Siemens** |
| 810 | Sv | **Sievert** |
| 811 | {s\_co\_ratio} | **signal to cutoff ratio** |
| 812 | {spermatozoa}/mL | **spermatozoa per milliliter** |
| 813 | **cm2** | **square centimeter** |
| 814 | cm2/s | **square centimeter per second** |
| 815 | dm2/s2 | **square decimeter per square second** |
| 816 | [sft\_i] | **square foot (international)** |
| 817 | [sin\_i] | **square inch (international)** |
| 818 | m2 | **square meter** |
| 819 | m2/s | **square meter per second** |
| 829 | **mm2** | **square millimeter** |
| 821 | [syd\_i] | **square yard (international)** |
| 822 | {STDV} | **standard deviation** |
| ◊823 | {Tscore} | **t score** |
| 824 | [tbs\_us] | **tablespoon (US)** |
| 825 | [tsp\_us] | **teaspoon (US)** |
| 826 | T | **Tesla** |
| 827 | 10\*3 | **thousand** |
| 828 | 10\*3{copies}/mL | **thousand copies per milliliter** |
| 829 | 10\*3/L | **thousand per liter** |
| 830 | 10\*3/uL | **thousand per microliter** |
| 831 | 10\*3/mL | **thousand per milliliter** |
| 832 | 10\*3{RBCs} | **thousand red blood cells** |
| 833 | {TSI\_index} | **thyroid-stimulating immunoglobulin index** |
| ◊834 | {TmStp} | **time stamp** |
| 835 | {titer} | **titer** |
| 836 | [todd'U] | **Todd unit** |
| 837 | Torr | **Torr** |
| 838 | 10\*12/L | **trillion per liter** |
| 839 | [oz\_tr] | **Troy ounce** |
| 840 | [tb'U] | **tuberculin unit** |
| 841 | V | **volt** |
| 842 | Wb | **Weber** |
| 843 | wk | **week** |
| 844 | {WBCs} | **white blood cells** |
| 845 | [yd\_i] | **yard (international)** |
| 846 | a | **year** |
| ◊847 | {yyyy} | **year** |
| ◊848 | {Zscore} | **z score** |

**Appendix Revisions Log**

**Version 1.5, Released June, 2020**

|  |  |  |  |  |  |  |  |
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| Row # Current Version (not a code) | UCUM\_CODE | Description of the Unit  (using UCUM descriptions where they exist) | Last Updated | Corrected by (initials BEM = Brenee Mitchell) | Row #  at time of correction (not a code) | Previous UCUM version (with Errors or Omissions) | Description of Change Made |
| 26 | {breaths}/min | **breaths per minute** | 6/2020 | BEM | 26 | N/A | *Addition* |
| 39 | cm/s | **centimeter per second** | 6/2020 | BEM | 39 | N/A | *Addition* |
| 55 | cm3 | **cubic centimeter** | 6/2020 | BEM | 55 | N/A | *Addition* |
| 58 | {Ct\_value} | **Cycle threshold value** | 6/2020 | BEM | 58 | N/A | *Addition* |
| 60 | d/(7.d) | **day per 7 day** | 6/2020 | BEM | 60 | N/A | *Addition* |
| 61 | d/wk | **days per week** | 6/2020 | BEM | 61 | N/A | *Addition* |
| 75 | [diop] | **Diopter** | 6/2020 | BEM | 75 | N/A | *Addition* |
| 127 | [ft\_us]/[ft\_us] | **feet (US) per feet (US)** | 6/2020 | BEM | 127 | N/A | *Addition* |
| 187 | g/cm2 | **gram per square centimeter** | 6/2020 | BEM | 187 | N/A | *Addition* |
| 197 | h/d | **hour per day** | 6/2020 | BEM | 197 | N/A | *Addition* |
| 198 | h/wk | **hour per week** | 6/2020 | BEM | 198 | N/A | *Addition* |
| 215 | [in\_us] | **inches (US)** | 6/2020 | BEM | 215 | N/A | *Addition* |
| 217 | {index} | **index value** | 6/2020 | BEM | 217 | N/A | *Addition* |
| 252 | kcal/(24.h) | **kilocalorie per 24 hour** | 6/2020 | BEM | 252 | N/A | *Addition* |
| 283 | L/min/m2 | **liter per minute per sqaure meter** | 6/2020 | BEM | 283 | N/A | *Addition* |
| 296 | [MET].min/wk | **metabolic equivalent minute per week** | 6/2020 | BEM | 296 | N/A | *Addition* |
| 378 | umol/10\*6{RBC} | **micromole per million red blood cell** | 6/2020 | BEM | 378 | N/A | *Addition* |
| 548 | mV/s | **millivolt per second** | 6/2020 | BEM | 548 | N/A | *Addition* |
| 552 | min/d | **minute per day** | 6/2020 | BEM | 552 | N/A | *Addition* |
| 553 | min/wk | **minute per week** | 6/2020 | BEM | 553 | N/A | *Addition* |
| 616 | nmol/h/mL | **nanomole per hour per milliliter** | 6/2020 | BEM | 616 | N/A | *Addition* |
| 634 | nmol/min/mg{protein} | **nanomole per minute per milligram protein** | 6/2020 | BEM | 634 | N/A | *Addition* |
| 639 | nmol/mol{creat} | **nanomole per mole creatinine** | 6/2020 | BEM | 639 | N/A | *Addition* |
| 648 | {#}/a | **number per annum (year)** | 6/2020 | BEM | 648 | N/A | *Addition* |
| 649 | {#}/d | **number per day** | 6/2020 | BEM | 649 | N/A | *Addition* |
| 650 | {#}/g | **number per gram** | 6/2020 | BEM | 650 | N/A | *Addition* |
| 657 | {#}/wk | **number per week** | 6/2020 | BEM | 657 | N/A | *Addition* |
| 754 | %{response} | **percent response** | 6/2020 | BEM | 754 | N/A | *Addition* |
| 770 | pg/mL{sLT} | **picogram per milliliter sulfidoleukotrienes** | 6/2020 | BEM | 770 | N/A | *Addition* |
| 781 | pmol/H/mg{protein} | **picomole per hour per milligram protein** | 6/2020 | BEM | 781 | N/A | *Addition* |
| 802 | {risk} | **risk** | 6/2020 | BEM | 802 | N/A | *Addition* |
| 805 | {score} | **score** | 6/2020 | BEM | 805 | N/A | *Addition* |
| 823 | {Tscore} | **t score** | 6/2020 | BEM | 823 | N/A | *Addition* |
| 834 | {TmStp} | **time stamp** | 6/2020 | BEM | 834 | N/A | *Addition* |
| 847 | {yyyy} | **year** | 6/2020 | BEM | 847 | N/A | *Addition* |
| 848 | {Zscore} | **z score** | 6/2020 | BEM | 848 | N/A | *Addition* |

**Version 1.4, Released July 18, 2016**

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| Row # Current Version (not a code) | UCUM\_CODE | Description of the Unit  (using UCUM descriptions where they exist) | Last Updated | Corrected by (initials RG = Rebecca Goodwin) | Row #  at time of correction (not a code) | Previous UCUM version (with Errors or Omissions) | Description of Change Made |
| 259 | [knk'U] | **Kunkel unit** | 7/18/2016 | RG | 259 | [knk'U] | *deleted trailing spaces* |
| 685 | /10\*3{RBCs} | **per thousand red blood cells** | 7/18/2016 | RG | 685 | /10\*3.{RBCs} | *deleted dot notation* |

**Version 1.3, Released September 26, 2014**

|  |  |  |  |  |  |  |  |
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| Row # Current Version (not a code) | UCUM\_CODE | Description of the Unit  (using UCUM descriptions where they exist) | Last Updated | Corrected by (initials RG = Rebecca Goodwin) | Row #  at time of correction (not a code) | Previous UCUM version (with Errors or Omissions) | Description of Change Made |
| [removed] | mol/ | **mole per** | 9/24/2014 | RG | 535 | mol/ | *Removed because redundant with mol (row 534).* |
| 127 | fmol/mg{cyt\_prot} | **femtomole per milligram of cytosol protein** | 7/30/2014 | RG | 127 | fmol/mg{cytosol\_protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 128 | fmol/mg{prot} | **femtomole per milligram of protein** | 7/30/2014 | RG | 128 | fmol/mg{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 365 | umol/min/g{prot} | **micromole per minute per gram of protein** | 7/30/2014 | RG | 365 | umol/min/g{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 382 | mU/g{prot} | **milli enzyme unit per gram of protein** | 7/30/2014 | RG | 382 | mU/g{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 459 | mL/(8.h)/kg | **milliliter per 8 hour per kilogram** | 9/23/2014 | RG | 459 | mL(8.h)/kg | *Corrected syntax to match narrative definition.* |
| 498 | mmol/h/mg{prot} | **millimole per hour per milligram of protein** | 7/30/2014 | RG | 498 | mmol/h/mg{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 542 | {#}/{platelet} | **molecule per platelet** | 7/30/2014 | RG | 543 | {molecule}/{platelet} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 566 | ng/mg{prot} | **nanogram per milligram of protein** | 7/30/2014 | RG | 567 | ng/mg{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 583 | nmol/mmol{creat} | **nanomole bone collagen equivalent per millimole of creatinine** | 7/30/2014 | RG | 584 | nmol{BCE}/mmol{creat} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 584 | nmol/mg{prot} | **nanomole of 1/2 cystine per milligram of protein** | 7/30/2014 | RG | 585 | nmol{1/2cys}/mg{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 594 | nmol/h/mg{prot} | **nanomole per hour per milligram of protein** | 7/30/2014 | RG | 595 | nmol/h/mg{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 598 | nmol/m/mg{prot} | **nanomole per meter per milligram of protein** | 7/30/2014 | RG | 599 | nmol/m/mg{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 602 | nmol/mg{prot} | **nanomole per milligram of protein** | 7/30/2014 | RG | 603 | nmol/mg{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 603 | nmol/mg{prot}/h | **nanomole per milligram of protein per hour** | 7/30/2014 | RG | 604 | nmol/mg{protein}/h | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 612 | nmol/min/mg{prot} | **nanomole per minute per milligram of protein** | 7/30/2014 | RG | 613 | nmol/min/mg{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 715 | %{pooled\_plasma} | **percent normal pooled plasma** | 7/30/2014 | RG | 716 | %{normal\_pooled\_plasma} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 751 | pmol/h/mg{prot} | **picomole per hour per milligram of protein** | 7/30/2014 | RG | 752 | pmol/h/mg{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 756 | pmol/mg{prot} | **picomole per milligram of protein** | 7/30/2014 | RG | 757 | pmol/mg{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 760 | pmol/min/mg{prot} | **picomole per minute per milligram of protein** | 7/30/2014 | RG | 761 | pmol/min/mg{protein} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |
| 771 | {rel\_saturation} | **relative saturation** | 7/30/2014 | RG | 772 | {relative\_saturation} | *abbreviated to shorten string to less than 20 characters to conform to HL7 prescribed field lengths* |

**Version 1.2, Released January 31, 2014**

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| UCUM\_CODE | Description of the Unit  (using UCUM descriptions where they exist) | Last Updated | Corrected by (initials RG = Rebecca Goodwin) | Row #  at time of correction (not a code) | Previous UCUM\_CODE (with Errors or Omissions) | Description of Change Made |
| k[AU] | **kilo allergy unit** | 2/6/2014 | RG | 231 | *k[AU]* | *Removed because non-metric unit and discouraged for use because of ambiguous use in EIA testing* |
| k[AU]/L | **kilo allergy unit per liter** | 2/6/2014 | RG | 232 | *k[AU]/L* | *Removed because non-metric unit and discouraged for use because of ambiguous use in EIA testing* |
| {AHF'U} | **American Hospital Formulary unit** | 1/31/2014 | RG | 10 | *{AHF’U}* | *Changed apostrophe format from ’ to '* |
| [beth'U] | **Bethesda unit** | 1/31/2014 | RG | 20 | *[beth’U]* | *Changed apostrophe format from ’ to '* |
| {Ehrlich'U} | **Ehrlich unit** | 1/31/2014 | RG | 73 | *{Ehrlich’U}* | *Changed apostrophe format from ’ to '* |
| {Ehrlich'U}/100.g | **Ehrlich unit per 100 gram** | 1/31/2014 | RG | 74 | *{Ehrlich’U}/100g* | *Changed apostrophe format from ’ to ' and added period between 100 and g* |
| {Ehrlich'U}/(2.h) | **Ehrlich unit per 2 hour** | 1/31/2014 | RG | 75 | *{Ehrlich’U}/(2.h)* | *Changed apostrophe format from ’ to '* |
| {Ehrlich'U}/d | **Ehrlich unit per day** | 1/31/2014 | RG | 76 | *{Ehrlich’U}/d* | *Changed apostrophe format from ’ to '* |
| g/kg/(8.h) | **gram per kilogram per 8 hour** | 1/31/2014 | RG | 147 | *g/kg/8.h* | *Added parentheses around 8.h* |
| g/kg | **gram per kilogram** | 1/31/2014 | RG | 167 | *g/kg* | *deleted trailing space after closing bracket* |
| {ImmuneComplex'U} | **immune complex unit** | 1/31/2014 | RG | 198 | *{ImmuneComplex’U}* | *Changed apostrophe format from ’ to '* |
| [ka'U] | **King Armstrong unit** | 1/31/2014 | RG | 259 | *[ka’U]* | *Changed apostrophe format from ’ to '* |
| [knk'U] | **Kunkel unit** | 1/31/2014 | RG | 261 | *[KNK’U]* | *Changed apostrophe format from ’ to ' and deleted trailing space after closing bracket* |
| [mclg'U] | **Maclagan unit** | 1/31/2014 | RG | 281 | *[MCLG’U]* | *Changed apostrophe format from ’ to '* |
| mg/d/{1.73\_m2} | **milligram per day per 1.73 square meter** | 1/31/2014 | RG | 422 | *mg/d/(1.73\_m2)* | *Changed parentheses to curly brackets* |
| mL(8.h)/kg | **milliliter per 8 hour per kilogram** | 1/31/2014 | RG | 461 | *mL(8.h.kg)* | *Corrected syntax to match narrative definition.* |
| [pptr] | **part per trillion** | 1/31/2014 | RG | 646 | *[ppt]* | *Added missing r* |
| [todd'U] | **Todd unit** | 1/31/2014 | RG | 805 | *[Todd’U]* | *Changed apostrophe format from ’ to '* |

**Version 1.1, Released October 4, 2011**

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| **UCUM\_CODE** | **Description of the Unit  (using UCUM descriptions where they exist)** | **Last Updated** | **Corrected by** (initials RG = Rebecca Goodwin) | **Row #** at time of correction (not a code) | **Previous UCUM version (with Errors or Omissions)** | **Description of Change Made** |
| [ka'U] | **King Armstrong unit** | 10/4/2011 | RG | 259 | *[KA'U]* | *Changed to lowercase ka* |
| [knk'U] | **Kunkel unit** | 10/4/2011 | RG | 261 | *[KNK'U]* | *Changed to lowercase knk* |
| [mclg'U] | **Maclagan unit** | 10/4/2011 | RG | 281 | *[MCLG'U]* | *Changed to lowercase mclg* |
| [todd'U] | **Todd unit** | 10/4/2011 | RG | 805 | *[Todd’U]* | *Changed to lowercase t* |
| g/(100.g) | **gram per 100 gram** | 10/4/2011 | RG | 148 | *g/100g* | *Added period between 100 and g* |
| g/(100.g) | **gram per 100 gram** | 10/4/2011 | RG | 148 | *g/100g* | *Added period between 100 and g* |
| ug/(100.g) | **microgram per 100 gram** | 10/4/2011 | RG | 298 | *ug/100g* | *Added period between 100 and g* |
| ug/(100.g) | **microgram per 100 gram** | 10/4/2011 | RG | 298 | *ug/100g* | *Added period between 100 and g* |