



## Free Acid (non-derivatized) Data Chart

Neutral and Acidic Amino Acids (NSK-A)			
m/z	Compound	Abbr.	Comments (NL 46)
76	Glycine	Gly	
<b>78</b>	<b>*Glycine</b>	<b>*Gly</b>	<b><sup>13</sup>C<sup>15</sup>N</b>
90	Alanine	Ala	
<b>94</b>	<b>*Alanine</b>	<b>*Ala</b>	<b>D<sub>4</sub></b>
106	Serine	Ser	
116	Proline	Pro	
118	Valine	Val	
120	Threonine	Thr	
<b>126</b>	<b>*Valine</b>	<b>*Val</b>	<b>D<sub>8</sub></b>
130	Glutamine	Gln	(Glu - NH <sub>2</sub> )
132	Leucine+	Leu+	Isoleucine, HydroxyProline, Allo-Ile
<b>135</b>	<b>*Leucine</b>	<b>*Leu</b>	<b>D<sub>3</sub></b>
150	Methionine	Met	
<b>153</b>	<b>*Methionine</b>	<b>*Met</b>	<b>D<sub>3</sub></b>
156	Histidine	His	
166	Phenylalanine	Phe	
<b>172</b>	<b>*Phenylalanine</b>	<b>*Phe</b>	<b><sup>13</sup>C<sub>6</sub></b>
182	Tyrosine	Tyr	
<b>188</b>	<b>*Tyrosine</b>	<b>*Tyr</b>	<b><sup>13</sup>C<sub>6</sub></b>
134	Aspartic Acid	Asp	
<b>137</b>	<b>*Aspartic Acid</b>	<b>*Asp</b>	<b>D<sub>3</sub></b>
148	Glutamic Acid	Glu	
<b>151</b>	<b>*Glutamic Acid</b>	<b>*Glu</b>	<b>D<sub>3</sub></b>

Basic Amino Acids (NSK-A)			
m/z	Compound	Abbr.	Comments
133	Ornithine	Orn	NL 63
<b>135</b>	<b>*Ornithine</b>	<b>*Orn</b>	<b>D<sub>2</sub></b>
176	Citrulline	Cit	NL 63
<b>178</b>	<b>*Citrulline</b>	<b>*Cit</b>	<b>D<sub>2</sub></b>
175	Arginine	Arg	NL 105
<b>180</b>	<b>*Arginine</b>	<b>*Arg</b>	<b>D<sub>4</sub><sup>13</sup>C</b>

NL = Neutral Loss

Legend: NSK-A = blue, NSK-B = green, NSK-B-G = red  
For Research Use Only. Not for diagnostic procedures.

**Note: Customers can request a laminated copy of this chart.**

Free Carnitine (NSK-B)			
m/z	Compound	Abbr.	Comments (Pre 85)
162	Free Carnitine	C0, FC	Pre 85 and Pre 103
165	*Hydro-Free Carnitine	*Hydro-FC	Hydrolyzed D <sub>3</sub> AC STDS
<b>171</b>	<b>*Free Carnitine</b>	<b>*FC</b>	<b>D<sub>9</sub></b>
Acylcarnitines (NSK-B, NSK-B-G)			
m/z	Compound	Abbr.	Comments
204	Acetyl-	C2	
<b>207</b>	<b>*Acetyl-</b>	<b>*C2</b>	<b>D<sub>3</sub></b>
218	Propionyl-	C3	
<b>221</b>	<b>*Propionyl-</b>	<b>*C3</b>	<b>D<sub>3</sub></b>
232	Butyryl-	C4	
<b>235</b>	<b>*Butyryl-</b>	<b>*C4</b>	<b>D<sub>3</sub></b>
244	Tiglyl-	C5:1	
246	Isovaleryl-	C5	Methylbutyryl-
248	Hydroxybutyryl-	C4OH	Malonyl-
<b>255</b>	<b>*Isovaleryl-</b>	<b>*C5</b>	<b>D<sub>9</sub></b>
260	Hexanoyl-	C6	
262	Hydroxyisovaleryl-	C5OH	Methylmalonyl-
<b>265</b>	<b>*Hydroxyisovaleryl-</b>	<b>*C5OH</b>	<b>D<sub>3</sub></b>
288	Octanoyl-	C8	
<b>291</b>	<b>*Octanoyl-</b>	<b>*C8</b>	<b>D<sub>3</sub></b>
248	Malonyl-	C3DC	Hydroxybutyryl-
312	Decadienoyl-	C10:2	
314	Decenoyl-	C10:1	
316	Decanoyl-	C10	
262	Methylmalonyl-	C4DC	Hydroxyisovaleryl-
276	Glutaryl-	C5DC	
<b>279</b>	<b>*Glutaryl</b>	<b>*C5DC</b>	<b>D<sub>3</sub></b>
344	Dodecanoyl-	C12	
<b>353</b>	<b>*Dodecanoyl</b>	<b>*C12</b>	<b>D<sub>9</sub></b>
370	Tetradecenoyl-	C14:1	
372	Tetradecanoyl-	C14	
<b>381</b>	<b>*Tetradecanoyl-</b>	<b>*C14</b>	<b>D<sub>9</sub></b>
400	Palmitoyl-	C16	
<b>403</b>	<b>*Palmitoyl-</b>	<b>*C16</b>	<b>D<sub>3</sub></b>
416	Hydroxypalmitoyl-	C16OH	
426	Octadecenoyl-	C18:1	
428	Octadecanoyl-	C18	
<b>431</b>	<b>*Octadecanoyl-</b>	<b>*C18</b>	<b>D<sub>3</sub></b>
442	Hydroxyoctadecenoyl-	C18:1 OH	
444	Hydroxyoctadecanoyl-	C18OH	