

List of metabolites

AbsoluteIDQ® p180 kit
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AbsoluteIDQ® p180 kit – List of metabolites

The standard in targeted metabolomics

The AbsoluteIDQ® p180 kit is a simple and high-throughput tool for basic, clinical, and epidemiological research. The kit provides scientists with highly reproducible metabolomics data to confidently obtain detailed knowledge about the metabolic phenotypes in their studies. The successful application of the kit is demonstrated in hundreds of published articles making it the most frequently chosen metabolomics approach of its kind.

| | Analyte class (number of metabolites) | Analytical method |
|----------------------|---------------------------------------|-------------------|
| Small molecules (43) | Amino acids (21) | LC-MS/MS |
| | Biogenic amines (21) | |
| | Monosaccharides (1) | |
| Lipids (145) | Acylcarnitines (40) | FIA-MS/MS |
| | Glycerophospholipids (90) | |
| | Sphingomyelins (15) | |

Amino acids (21)

| | | | |
|-----|------------|-----|---------------|
| Ala | Alanine | Lys | Lysine |
| Arg | Arginine | Met | Methionine |
| Asn | Asparagine | Orn | Ornithine |
| Asp | Aspartate | Phe | Phenylalanine |
| Cit | Citrulline | Pro | Proline |
| Glu | Glutamate | Ser | Serine |
| Gln | Glutamine | Thr | Threonine |
| Gly | Glycine | Trp | Tryptophan |
| His | Histidine | Tyr | Tyrosine |
| Ile | Isoleucine | Val | Valine |
| Leu | Leucine | | |

Biogenic amines (21)

| | | | |
|------------|--------------------------------|------------------------|----------------------------|
| Ac-Orn | Acetylornithine | Met-SO | Methionine sulfoxide |
| alpha-AAA | alpha-Aminoadipic acid | Nitro-Tyr ¹ | Nitrotyrosine |
| ADMA | Asymmetric dimethylarginine | PEA | Phenylethylamine |
| Carnosine | Carnosine | Putrescine | Putrescine |
| Creatinine | Creatinine | Sarcosine | Sarcosine |
| DOPA | Dihydroxyphenylalanine | Serotonin | Serotonin |
| Dopamine | Dopamine | Spermidine | Spermidine |
| Histamine | Histamine | Spermine | Spermine |
| c4-OH-Pro | <i>cis</i> -4-Hydroxyproline | SDMA | Symmetric dimethylarginine |
| t4-OH-Pro | <i>trans</i> -4-Hydroxyproline | Taurine | Taurine |
| Kynurenine | Kynurenine | | |

Monosaccharides (1)

| | | | |
|----|-----------------------------|--|--|
| H1 | Hexoses (including glucose) | | |
|----|-----------------------------|--|--|

Acylcarnitines (40)

| | | | |
|-------|---------------------------|-----------------|--|
| C0 | Carnitine | C4-OH (C3-DC) | Hydroxybutyrylcarnitine (Malonylcarnitine) |
| C2 | Acetylcarnitine | C4:1 | Butenylcarnitine |
| C3 | Propionylcarnitine | C5 | Valerylcarnitine |
| C3-OH | Hydroxypropionylcarnitine | C5-DC (C6-OH) | Glutaryl carnitine (Hydroxyhexanoylcarnitine) |
| C3:1 | Propenoylcarnitine | C5-M-DC | Methylglutaryl carnitine |
| C4 | Butyrylcarnitine | C5-OH (C3-DC-M) | Hydroxyvalerylcarnitine (Methylmalonylcarnitine) |

¹ SCIEX and Waters only

| Acylcarnitines (continued) | | | |
|----------------------------|--|----------|---------------------------------|
| C5:1 | Tiglylcarnitine | C14:1 | Tetradecenoylcarnitine |
| C5:1-DC | Glutaconylcarnitine | C14:1-OH | Hydroxytetradecenoylcarnitine |
| C6 (C4:1-DC) | Hexanoylcarnitine (Fumarylacarnitine) | C14:2 | Tetradecadienylcarnitine |
| C6:1 | Hexenoylcarnitine | C14:2-OH | Hydroxytetradecadienylcarnitine |
| C7-DC | Pimeloylcarnitine | C16 | Hexadecanoylcarnitine |
| C8 | Octanoylcarnitine | C16-OH | Hydroxyhexadecanoylcarnitine |
| C9 | Nonanoylcarnitine | C16:1 | Hexadecenoylcarnitine |
| C10 | Decanoylcarnitine | C16:1-OH | Hydroxyhexadecenoylcarnitine |
| C10:1 | Decenoylcarnitine | C16:2 | Hexadecadienylcarnitine |
| C10:2 | Decadienylcarnitine | C16:2-OH | Hydroxyhexadecadienylcarnitine |
| C12 | Dodecanoylcarnitine | C18 | Octadecanoylcarnitine |
| C12-DC | Dodecanedioylcarnitine | C18:1 | Octadecenoylcarnitine |
| C12:1 | Dodecenoylcarnitine | C18:1-OH | Hydroxyoctadecenoylcarnitine |
| C14 | Tetradecanoylcarnitine | C18:2 | Octadecadienylcarnitine |

| Glycerophospholipids (90) | | | |
|---------------------------|--------------------------|-------------|-------------|
| lysoPC a C14:0 | PC aa C34:1 | PC aa C42:0 | PC ae C38:2 |
| lysoPC a C16:0 | PC aa C34:2 | PC aa C42:1 | PC ae C38:3 |
| lysoPC a C16:1 | PC aa C34:3 | PC aa C42:2 | PC ae C38:4 |
| lysoPC a C17:0 | PC aa C34:4 | PC aa C42:4 | PC ae C38:5 |
| lysoPC a C18:0 | PC aa C36:0 | PC aa C42:5 | PC ae C38:6 |
| lysoPC a C18:1 | PC aa C36:1 | PC aa C42:6 | PC ae C40:1 |
| lysoPC a C18:2 | PC aa C36:2 | PC ae C30:0 | PC ae C40:2 |
| lysoPC a C20:3 | PC aa C36:3 | PC ae C30:1 | PC ae C40:3 |
| lysoPC a C20:4 | PC aa C36:4 | PC ae C30:2 | PC ae C40:4 |
| lysoPC a C24:0 | PC aa C36:5 | PC ae C32:1 | PC ae C40:5 |
| lysoPC a C26:0 | PC aa C36:6 | PC ae C32:2 | PC ae C40:6 |
| lysoPC a C26:1 | PC aa C38:0 | PC ae C34:0 | PC ae C42:0 |
| lysoPC a C28:0 | PC aa C38:1 ² | PC ae C34:1 | PC ae C42:1 |
| lysoPC a C28:1 | PC aa C38:3 | PC ae C34:2 | PC ae C42:2 |
| PC aa C24:0 | PC aa C38:4 | PC ae C34:3 | PC ae C42:3 |
| PC aa C26:0 | PC aa C38:5 | PC ae C36:0 | PC ae C42:4 |
| PC aa C28:1 | PC aa C38:6 | PC ae C36:1 | PC ae C42:5 |
| PC aa C30:0 | PC aa C40:1 | PC ae C36:2 | PC ae C44:3 |
| PC aa C30:2 ² | PC aa C40:2 | PC ae C36:3 | PC ae C44:4 |
| PC aa C32:0 | PC aa C40:3 | PC ae C36:4 | PC ae C44:5 |
| PC aa C32:1 | PC aa C40:4 | PC ae C36:5 | PC ae C44:6 |
| PC aa C32:2 | PC aa C40:5 | PC ae C38:0 | |
| PC aa C32:3 | PC aa C40:6 | PC ae C38:1 | |

| Sphingomyelins (15) | | | |
|---------------------|---------------|-----------------------|---------------|
| SM (OH) C14:1 | SM C18:0 | SM (OH) C22:2 | SM (OH) C24:1 |
| SM C16:0 | SM C18:1 | SM C22:3 ² | SM C26:0 |
| SM C16:1 | SM C20:2 | SM C24:0 | SM C26:1 |
| SM (OH) C16:1 | SM (OH) C22:1 | SM C24:1 | |

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