

HPLC and GC

Underlined compounds can be analysed also on GC

Molecule name			
Coenzymes	acetyl CoA	Nucleotides	
	coenzyme A (CoA)		
Amino acids	<u>dephospho CoA</u>	2, 2-dideoxy cyclic di-AMP	
	propionyl CoA	ADP	
	succinyl CoA	AMP	
	<u>alanine</u>	ATP	
	<u>arginine</u>	CTP	
	<u>asparagine</u>	cyclic di-AMP	
	<u>aspartate</u>	GMP	
	<u>cysteine</u>	IMP	
	<u>cystine</u>	UMP	
	<u>gamma-aminobutyric acid</u>	UTP	
	<u>glutamic acid</u>	Purines, pyrimidines, folic acid	
	<u>glutamic acid</u>		
	<u>glutamine</u>		2-deoxycytidine
	glutamyl-cysteine		2-deoxy-guanosine
	<u>glycine</u>		5-hydroxymethyl-2-deoxycytidine
	<u>histidine</u>		5-methyl-2-deoxycytidine
	<u>homocysteine</u>		<u>adenine</u>
	<u>isoleucine</u>		AICAR (aminoimidazole carboxamide ribotide)
	<u>leucine</u>		<u>cytosine</u>
	<u>lysine</u>		<u>dihydroorotate</u>
<u>methionine</u>	folic acid		
<u>phenylalanine</u>	<u>guanine</u>		
<u>proline</u>	<u>hypoxanthine</u>		
<u>serine</u>	<u>orotate</u>		
<u>threonine</u>	SAMP (succinyl-AMP)		
<u>tryptophane</u>	<u>thymidine</u>		
<u>tyrosine</u>	<u>thymine</u>		
<u>valine</u>	<u>uracil</u>		
Urea cycle	carbamoyl phosphate		uridine
	<u>citrulline</u>		<u>xanthin</u>
	<u>ornithine</u>	ZDP (aminoimidazole carboxamide dinucleotide)	
		ZTP (aminoimidazole carboxamide trinucleotide)	
Steroid hormones		androsterone	
		dihydrotestosterone	
		estradiol	
		kortikosterone	
		progesterone	
		testosterone	

Citric acid cycle	<u>2-methyl citric acid</u> <u>alphaketoglutaric acid</u> <u>cis -aconitic acid</u> <u>citric acid</u> <u>fumaric acid</u> <u>glyoxilic acid</u> <u>hydroxy glutaric acid</u> <u>isocitric acid</u> <u>itaconic acid</u> <u>malic acid</u> <u>succinic acid</u>	Cofactors	NAD+ NADH NADP+ NADPH
		Antioxidants	oxidized glutathion reduced glutathion
		GC	
Sugars; Glycolysis	2-phosphoglyceric acid 6-phosphogluconic acid <u>arabinose</u> dihydroxyacetone phosphate <u>fructose</u> fructose-1,6-bisphosphate fructose-6-phosphate <u>galactose</u> glucosamine-6-phosphate <u>glucose</u> glucose-6-phosphate glyceraldehyde-3-phosphate <u>inositol</u> <u>lactic acid</u> <u>lactose</u> <u>mannitol</u> mannose <u>phosphoenol pyr</u> <u>pyruvic acid</u> <u>ribitol</u> <u>ribose</u> <u>sacharose</u> UDP-N-acetylgalactosamine <u>xylose</u>	Fatty acids	Formic acid Acetic acid cca 30 carbons

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