

Concentration (in mM)	Cell number	2-Hydroxybutyrate	2-Oxoglutarate	3-Hydroxybutyrate	Acetate	Alanine	Arginine	Citrate	Formate	Fructose	Fumarate	Glucose	Glutamate	Glutamine	Glycine	Histidine	Isoleucine	Lactate	Leucine	Lysine	Malate	Methionine	Niacinamide	Phenylalanine	Pyroglutamate	Pyruvate	Serine	Succinate	Threonine	Tryptophan	Tyrosine	Valine
SAT ASC # 1	240 000	-0.027	0.061	0.151	-0.050	1.148	-0.374	1.851	0.334	-0.368	0.007	-7.415	0.508	-1.689	0.412	-0.071	-0.171	19.395	-0.552	0.291	0.177	0.084	-0.029	-0.009	-0.167	-0.075	-1.136	0.013	-0.461	-0.035	-0.087	-0.287
SAT ASC # 2	260 000	-0.240	0.129	0.126	-0.110	0.982	-0.210	1.594	0.309	0.002	0.007	-11.124	0.493	-1.721	0.456	-0.102	-0.349	18.259	-1.039	-0.304	0.064	0.019	-0.029	-0.077	-0.252	-0.107	-0.731	-0.021	-0.402	-0.036	-0.050	-0.412
SAT ASC # 3	180 000	-0.008	0.132	0.103	-0.034	1.669	-0.342	2.168	0.383	0.525	0.008	-7.503	0.513	-2.824	0.751	-0.118	-0.254	22.050	-0.544	0.164	-0.158	0.158	-0.032	-0.098	-0.208	-0.013	-0.299	0.032	-0.230	-0.035	0.019	-0.047
SAT ASC # 4	200 000	-0.018	0.094	-0.066	-0.066	1.049	-0.603	1.798	0.317	0.150	0.009	-10.068	0.510	-2.749	0.433	-0.084	-0.395	19.972	-0.494	-0.117	0.187	0.055	-0.026	-0.006	-0.211	-0.069	-0.614	0.007	-0.318	-0.035	-0.113	-0.245
SAT ASC # 5	180 000	-0.013	-0.088	0.050	-0.144	0.820	0.333	1.589	0.246	0.060	0.006	-10.468	0.533	-1.905	0.289	-0.113	-0.452	17.635	-0.535	0.080	0.221	0.045	-0.030	-0.067	-0.029	-0.121	-0.596	-0.047	-0.535	-0.033	-0.134	-0.400
SAT ASC # 6	200 000	0.003	-0.089	0.167	-0.034	1.034	-0.065	1.780	0.303	-0.031	0.009	-6.752	0.535	-1.478	0.782	-0.056	-0.083	18.462	-0.337	0.596	0.289	0.107	-0.021	0.027	0.004	-0.098	-0.637	0.030	-0.135	-0.033	-0.001	-0.200
VAT ASC # 1	140 000	0.029	-0.089	0.044	-0.081	1.074	0.090	1.391	0.468	0.075	0.011	-22.501	0.568	-2.744	0.460	-0.150	-0.508	45.844	-0.695	-0.006	0.140	-0.017	-0.036	-0.155	-0.168	-0.543	-0.902	0.051	-0.179	-0.047	-0.107	-0.212
VAT ASC # 2	200 000	-0.005	-0.070	0.255	-0.258	0.674	-0.048	0.929	0.350	-0.162	0.007	-21.472	-0.033	-2.878	0.202	-0.152	-0.806	35.348	-0.857	0.018	-0.212	-0.105	-0.033	-0.079	-0.173	-0.547	-0.911	-0.004	0.035	-0.053	-0.142	-0.475
VAT ASC # 3	140 000	0.012	-0.107	0.176	-0.199	0.734	-0.556	1.136	0.363	-0.131	0.007	-24.205	0.238	-2.804	0.236	-0.159	-0.657	39.500	-0.795	0.163	-0.298	-0.049	-0.031	-0.053	-0.186	-0.508	-1.044	0.015	1.312	-0.052	-0.144	-0.457
VAT ASC # 4	260 000	-0.003	-0.102	0.135	-0.281	0.732	-0.153	0.965	0.312	-0.047	0.008	-22.156	0.142	-2.816	0.207	-0.137	-0.800	33.138	-0.846	-0.255	-0.087	-0.138	-0.035	-0.067	-0.184	-0.457	-1.051	-0.035	1.320	-0.042	-0.165	-0.572
VAT ASC # 5	250 000	0.295	-0.076	0.072	0.103	0.606	-0.658	0.819	0.379	-0.078	0.002	-21.953	0.101	-2.731	0.170	-0.182	-0.667	32.049	-0.921	-0.229	-0.294	-0.083	-0.036	-0.188	-0.219	-0.573	-1.069	-0.016	1.167	-0.060	-0.224	-0.685
VAT ASC # 6	290 000	-0.008	-0.017	0.173	0.105	0.921	-0.272	0.870	0.406	0.048	0.007	-19.306	0.232	-2.743	0.316	-0.123	-0.562	35.286	-0.838	-0.142	-0.075	-0.079	-0.031	-0.049	-0.180	-0.472	-1.059	0.028	-0.035	-0.043	-0.085	-0.650
p value	0.9116	0.1223	0.0243	0.278	0.7023	0.0400	0.7714	<0.001	0.0468	0.4162	0.6145	<0.0001	0.0041	0.0122	0.0201	0.0009	0.0005	<0.0001	0.0386	0.2105	0.0161	0.0002	0.0107	0.0824	0.0151	< 0.0001	0.0151	0.8206	0.011	0.0004	0.0257	0.0214