Muons in sucrose ($C_{12}H_{22}O_{11}$)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.53170	1.581	77.5	0.11301	3.3630	0.1341	2.6558	3.1526	0.00

T	p [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm^2]
		[MeV cm^2/g]					
10.0 MeV	4.704×10^1	7.597				7.597	7.277×10^{-1}
14.0 MeV	5.616×10^1	5.927				5.927	1.330×10^0
20.0 MeV	6.802×10^1	4.629				4.629	2.489×10^0
30.0 MeV	8.509×10^1	3.592				3.592	4.975×10^0
40.0 MeV	1.003×10^2	3.068				3.068	8.008×10^0
80.0 MeV	1.527×10^2	2.300				2.300	2.354×10^1
100. MeV	1.764×10^2	2.153				2.154	3.255×10^1
140. MeV	2.218×10^2	2.004				2.004	5.190×10^1
200. MeV	2.868×10^2	1.918				1.918	8.262×10^1
300. MeV	3.917×10^2	1.884			0.000	1.885	1.354×10^2
318. MeV	4.105×10^2	1.884			0.000	1.884	*Minimum ionization*
400. MeV	4.945×10^2	1.890			0.000	1.890	1.884×10^2
800. MeV	8.995×10^2	1.960	0.000		0.000	1.961	3.963×10^2
1.00 GeV	1.101×10^3	1.993	0.000		0.000	1.993	4.974×10^2
1.40 GeV	1.502×10^3	2.045	0.000		0.001	2.047	6.953×10^2
2.00 GeV	2.103×10^3	2.104	0.001	0.000	0.001	2.106	9.841×10^2
3.00 GeV	3.104×10^3	2.170	0.001	0.001	0.001	2.173	1.451×10^3
4.00 GeV	4.104×10^3	2.217	0.001	0.001	0.002	2.221	1.906×10^3
8.00 GeV	8.105×10^3	2.323	0.003	0.003	0.004	2.333	3.658×10^3
10.0 GeV	1.011×10^4	2.355	0.004	0.004	0.005	2.369	4.508×10^3
14.0 GeV	1.411×10^4	2.402	0.007	0.007	0.007	2.423	6.177×10^3
20.0 GeV	2.011×10^4	2.449	0.011	0.012	0.009	2.481	8.623×10^3
30.0 GeV	3.011×10^4	2.500	0.017	0.021	0.013	2.552	1.259×10^4
40.0 GeV	4.011×10^4	2.535	0.025	0.031	0.018	2.609	1.647×10^4
80.0 GeV	8.011×10^4	2.615	0.056	0.076	0.034	2.781	3.129×10^4
100. GeV	1.001×10^5	2.640	0.073	0.100	0.042	2.855	3.839×10^4
140. GeV	1.401×10^5	2.677	0.108	0.150	0.059	2.994	5.206×10^4
200. GeV	2.001×10^5	2.716	0.162	0.229	0.084	3.191	7.147×10^4
300. GeV	3.001×10^5	2.761	0.256	0.364	0.125	3.506	1.013×10^5
400. GeV	4.001×10^5	2.792	0.353	0.505	0.167	3.817	1.287×10^5
800. GeV	8.001×10^5	2.868	0.758	1.091	0.337	5.054	2.194×10^5
1.00 TeV	1.000×10^6	2.893	0.967	1.394	0.424	5.678	2.568×10^5
1.04 TeV	1.038×10^6	2.897	1.006	1.450	0.440	5.794	*Muon critical energy*
1.40 TeV	1.400×10^6	2.930	1.389	1.997	0.601	6.917	3.205×10^5
2.00 TeV	2.000×10^6	2.971	2.036	2.921	0.870	8.798	3.972×10^5
3.00 TeV	3.000×10^6	3.017	3.122	4.459	1.334	11.932	4.945×10^5
4.00 TeV	4.000×10^6	3.051	4.226	6.019	1.805	15.101	5.688×10^5
8.00 TeV	8.000×10^6	3.133	8.699	12.302	3.767	27.902	7.608×10^5
10.0 TeV	1.000×10^7	3.161	10.962	15.466	4.778	34.367	8.252×10^5
14.0 TeV	1.400×10^7	3.202	15.476	21.772	6.861	47.311	9.240×10^5
20.0 TeV	2.000×10^7	3.247	22.305	31.283	10.062	66.896	1.030×10^6
30.0 TeV	3.000×10^7	3.298	33.676	47.108	15.617	99.699	1.152×10^6
40.0 TeV	4.000×10^7	3.335	45.108	62.984	21.319	132.746	1.239×10^6
80.0 TeV	8.000×10^7	3.427	90.947	126.542	45.248	266.165	1.447×10^6
100. TeV	1.000×10^8	3.457	113.927	158.359	57.653	333.396	1.514×10^6