Muons in muscle-equivalent liquid with sucrose

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.54828	1.110	74.3	0.09481	3.4699	0.2098	2.7550	3.3910	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	7.877				7.877	7.016×10^{-1}
14.0 MeV	5.616×10^1	6.144				6.144	1.283×10^0
20.0 MeV	6.802×10^1	4.798				4.798	2.400×10^0
30.0 MeV	8.509×10^1	3.722				3.722	4.800×10^0
40.0 MeV	1.003×10^2	3.178				3.178	7.727×10^0
80.0 MeV	1.527×10^2	2.386				2.386	2.272×10^1
100. MeV	1.764×10^2	2.242				2.242	3.138×10^1
140. MeV	2.218×10^2	2.088				2.088	4.996×10^1
200. MeV	2.868×10^2	1.999				1.999	7.945×10^1
300. MeV	3.917×10^2	1.964			0.000	1.965	1.301×10^2
318. MeV	4.105×10^2	1.964			0.000	1.964	*Minimum ionization*
400. MeV	4.945×10^2	1.970			0.000	1.971	1.809×10^2
800. MeV	8.995×10^2	2.044	0.000		0.000	2.045	3.803×10^2
1.00 GeV	1.101×10^3	2.078	0.000		0.000	2.079	4.773×10^2
1.40 GeV	1.502×10^3	2.133	0.000		0.001	2.134	6.671×10^2
2.00 GeV	2.103×10^3	2.194	0.001	0.000	0.001	2.196	9.440×10^2
3.00 GeV	3.104×10^3	2.263	0.001	0.001	0.001	2.266	1.392×10^3
4.00 GeV	4.104×10^3	2.311	0.001	0.001	0.002	2.316	1.828×10^3
8.00 GeV	8.105×10^3	2.421	0.004	0.003	0.004	2.432	3.509×10^3
10.0 GeV	1.011×10^4	2.455	0.005	0.005	0.005	2.469	4.324×10^3
14.0 GeV	1.411×10^4	2.503	0.007	0.008	0.007	2.525	5.926×10^3
20.0 GeV	2.011×10^4	2.552	0.011	0.013	0.009	2.585	8.273×10^3
30.0 GeV	3.011×10^4	2.605	0.018	0.022	0.013	2.659	1.208×10^4
40.0 GeV	4.011×10^4	2.641	0.026	0.032	0.018	2.717	1.580×10^4
80.0 GeV	8.011×10^4	2.724	0.058	0.079	0.034	2.895	3.004×10^4
100. GeV	1.001×10^5	2.750	0.076	0.104	0.042	2.972	3.686×10^4
140. GeV	1.401×10^5	2.788	0.112	0.156	0.059	3.115	5.000×10^4
200. GeV	2.001×10^5	2.828	0.168	0.238	0.084	3.319	6.865×10^4
300. GeV	3.001×10^5	2.874	0.266	0.379	0.125	3.644	9.739×10^4
400. GeV	4.001×10^5	2.906	0.367	0.525	0.167	3.965	1.237×10^5
800. GeV	8.001×10^5	2.985	0.788	1.134	0.337	5.244	2.111×10^5
1.00 TeV	1.000×10^6	3.010	1.006	1.449	0.424	5.889	2.471×10^5
1.04 TeV	1.045×10^6	3.015	1.054	1.518	0.443	6.031	*Muon critical energy*
1.40 TeV	1.400×10^6	3.049	1.444	2.075	0.601	7.169	3.086×10^5
2.00 TeV	2.000×10^6	3.091	2.118	3.035	0.870	9.114	3.826×10^5
3.00 TeV	3.000×10^6	3.139	3.247	4.633	1.334	12.352	4.765×10^5
4.00 TeV	4.000×10^6	3.173	4.396	6.253	1.805	15.627	5.484×10^5
8.00 TeV	8.000×10^6	3.258	9.048	12.780	3.768	28.854	7.339×10^5
10.0 TeV	1.000×10^7	3.286	11.401	16.067	4.779	35.533	7.963×10^5
14.0 TeV	1.400×10^7	3.329	16.096	22.616	6.862	48.904	8.918×10^5
20.0 TeV	2.000×10^7	3.375	23.200	32.495	10.063	69.133	9.945×10^5
30.0 TeV	3.000×10^7	3.428	35.029	48.931	15.619	103.009	1.112×10^6
40.0 TeV	4.000×10^7	3.466	46.922	65.421	21.322	137.132	1.196×10^6
80.0 TeV	8.000×10^7	3.561	94.623	131.435	45.257	274.877	1.398×10^6
100. TeV	1.000×10^8	3.592	118.542	164.481	57.665	344.281	1.463×10^6