Muons in sodium nitrate ($NaNO_3$)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.49415	2.261	114.6	0.09391	3.5097	0.1534	2.8221	3.6502	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	6.702				6.702	8.281×10^{-1}
14.0 MeV	5.616×10^1	5.239				5.239	1.510×10^0
20.0 MeV	6.802×10^1	4.100				4.100	2.820×10^0
30.0 MeV	8.509×10^1	3.187				3.187	5.624×10^0
40.0 MeV	1.003×10^2	2.726				2.726	9.039×10^0
80.0 MeV	1.527×10^2	2.053				2.053	2.648×10^1
100. MeV	1.764×10^2	1.927				1.927	3.656×10^1
140. MeV	2.218×10^2	1.800				1.800	5.814×10^1
200. MeV	2.868×10^2	1.729				1.729	9.228×10^1
298. MeV	3.894×10^2	1.705			0.000	1.705	*Minimum ionization*
300. MeV	3.917×10^2	1.705			0.000	1.705	1.507×10^2
400. MeV	4.945×10^2	1.714			0.000	1.714	2.092×10^2
800. MeV	8.995×10^2	1.787	0.000		0.000	1.787	4.377×10^2
1.00 GeV	1.101×10^3	1.819	0.000		0.000	1.819	5.486×10^2
1.40 GeV	1.502×10^3	1.870	0.000	0.000	0.001	1.871	7.653×10^2
2.00 GeV	2.103×10^3	1.926	0.001	0.000	0.001	1.928	1.081×10^3
3.00 GeV	3.104×10^3	1.990	0.001	0.001	0.001	1.993	1.590×10^3
4.00 GeV	4.104×10^3	2.034	0.002	0.001	0.002	2.039	2.086×10^3
8.00 GeV	8.105×10^3	2.135	0.004	0.004	0.004	2.147	3.992×10^3
10.0 GeV	1.011×10^4	2.165	0.005	0.005	0.005	2.181	4.916×10^3
14.0 GeV	1.411×10^4	2.209	0.008	0.009	0.006	2.233	6.727×10^3
20.0 GeV	2.011×10^4	2.254	0.013	0.015	0.009	2.291	9.378×10^3
30.0 GeV	3.011×10^4	2.302	0.021	0.026	0.013	2.362	1.367×10^4
40.0 GeV	4.011×10^4	2.334	0.030	0.038	0.017	2.420	1.785×10^4
80.0 GeV	8.011×10^4	2.409	0.068	0.091	0.034	2.602	3.377×10^4
100. GeV	1.001×10^5	2.432	0.088	0.120	0.042	2.682	4.134×10^4
140. GeV	1.401×10^5	2.467	0.130	0.181	0.058	2.835	5.584×10^4
200. GeV	2.001×10^5	2.503	0.195	0.276	0.082	3.057	7.621×10^4
300. GeV	3.001×10^5	2.544	0.307	0.438	0.123	3.413	1.072×10^5
400. GeV	4.001×10^5	2.573	0.423	0.607	0.164	3.767	1.350×10^5
800. GeV	8.001×10^5	2.644	0.907	1.307	0.331	5.190	2.251×10^5
830. GeV	8.297×10^5	2.648	0.944	1.360	0.344	5.296	*Muon critical energy*
1.00 TeV	1.000×10^6	2.667	1.156	1.669	0.416	5.909	2.612×10^5
1.40 TeV	1.400×10^6	2.702	1.659	2.388	0.590	7.339	3.219×10^5
2.00 TeV	2.000×10^6	2.739	2.429	3.489	0.854	9.512	3.935×10^5
3.00 TeV	3.000×10^6	2.783	3.720	5.322	1.309	13.133	4.826×10^5
4.00 TeV	4.000×10^6	2.814	5.032	7.179	1.770	16.796	5.498×10^5
8.00 TeV	8.000×10^6	2.891	10.340	14.655	3.693	31.580	7.207×10^5
10.0 TeV	1.000×10^7	2.916	13.022	18.420	4.683	39.042	7.775×10^5
14.0 TeV	1.400×10^7	2.954	18.375	25.922	6.722	53.974	8.643×10^5
20.0 TeV	2.000×10^7	2.996	26.468	37.235	9.852	76.551	9.572×10^5
30.0 TeV	3.000×10^7	3.044	39.936	56.061	15.282	114.324	1.063×10^6
40.0 TeV	4.000×10^7	3.078	53.470	74.946	20.853	152.348	1.139×10^6
80.0 TeV	8.000×10^7	3.163	107.742	150.547	44.210	305.663	1.321×10^6
100. TeV	1.000×10^8	3.191	134.950	188.391	56.310	382.842	1.379×10^6