

Table 1 Cautery disbudding methodologies reported in goat kid publications.

Age of animal (days)	Breed	Hair removal (Y/N)	Type of iron	Iron temperature (°C)	Number of applications per bud	Total application per horn bud (seconds)	Horn bud removed (Y/N or both)	Reference
7-28	Saanen	NA	NA	NA	1	15-30	NA	Greenwood & Shutt (1990)
11-19	French Alpine, Saanen	Y	Electric – 220V	600*	3-4	9-16	N	Alvarez <i>et al</i> (2009)
<20	French Alpine, Saanen	Y	Electric	600*	3-4	9-16	N	Alvarez & Gutiérrez (2010)
13-21	Swedish Landrace	NA	Electric	600*	1	7-15	NA	Ingvast-Larsson <i>et al</i> (2011)
14-15	Beetal	NA	NA	NA	NA	NA	NA	Chandrabhas <i>et al</i> (2013)

10-20	French Alpine, Saanen	NA	Electric – Lenk® 200GD	NA	3-4	6-16	Y	Alvarez <i>et al</i> (2015)
14-15	Beetal	NA	Manually heated	NA	NA	NA	NA	Chandrasah <i>et al</i> (2015)
4-9	Saanen, Nubian, Toggenburg, LaMancha, French Alpine	Y	Electric	295-326	1	4-7	NA	Nfor <i>et al</i> (2016)
2-6	Saanen, Saanen cross	Y	Electric – 'Quality' 230V	600*	1	≤8	Y	Hempstead <i>et al</i> (2017)
2-7	Saanen cross	Y	Electric – 'Quality' 230V	600*	1	≤6	Y	Hempstead <i>et al</i> (2018a)
9-14	Saanen, Saanen cross	Y	Electric – 'Quality' 230V	600*	1	5-7	Y	Hempstead <i>et al</i> (2018b, c)
2-10	Saanen	Y	Gas-powered – 'Heavy Duty'	600*	1-4	~6	Y	Hempstead <i>et al</i> (2018d)

2-6	Saanen	Y	Electric – 'Quality' 230V	600*	1-5	~6	Both	Hempstead <i>et al</i> (2018e)
5-15	French Alpine, LaMancha, Saanen	Y	Electric – Rhinehart X-30	501	2-4	8-12	N	Alvarez <i>et al</i> (2019)

NA: not available as the information was not provided. * denotes studies that did not state if (or describe how) the temperature of the iron was measured.