

Cypridium Germination Protocols

12 October 2024

Species	Bleaching in 0.5% NaOCl	Casein hydrolysate	Sugar	Kinetin	Potato, 1-cm cubes per 25 mL of medium
<i>C. acaule</i>	60-80 minutes	0.5 g/L	20 g/L	0.5 mg/L	½ or 1 whole cube
<i>C. arietinum</i>	50 minutes – 2.5 hour	0.4 g/L	20 g/L	0.4 mg/L	½ or 1 whole cube
<i>C. calceolus</i>	45-50 minutes	0.4 g/L	10 g/L glucose	None	2 whole cubes
<i>C. californicum</i>	30-50 minutes	0.4 g/L	20 g/L	0.2 mg/L	½ cube
<i>C. candidum</i>	25-40 minutes	0.4 g/L	20 g/L	0.2 mg/L	3 whole cubes
<i>C. guttatum</i>	20-30 minutes	0.4 g/L	20 g/L	0.0-0.2 mg/L	2 whole cubes
<i>C. kentuckiense</i>	35 minutes	0.4 g/L	15 g/L glucose	None	1 or 2 whole cubes
<i>C. macranthos</i>	20-35 minutes	0.4 g/L	20 g/L	0.0-0.1 mg/L	½ cube
<i>C. montanum</i>	25 minutes	0.4 g/L	20 g/L glucose	0.2 mg/L	3 whole cubes
<i>C. parviflorum</i> v. <i>makasin</i>	20-35 minutes	0.4 g/L	20 g/L	0.2 mg/L	3 whole cubes
<i>C. parviflorum</i> v. <i>pubescens</i>	20-60 minutes	0.4 g/L	20 g/L	0.2 mg/L	3 whole cubes
<i>C. passerinum</i>	20 minutes	0.4 g/L	20 g/L	0.2 mg/L	1 or 2 whole cubes
<i>C. reginae</i>	30-45 minutes	0.5 g/L	20 g/L	0.5 mg/L	½ cube
<i>C. tibeticum</i>	20-35 minutes	0.4 g/L	20 g/L	0.0-0.1 mg/L	½ or 1 whole cube
<i>C. yatabeanum</i>	20-25 minutes	0/4 g/L	20 g/L	None	2 whole cubes

Notes:

A bleaching solution containing 0.5% NaOCl is obtained by diluting commercial bleach to this concentration.

If the kind of sugar is not specified, either glucose or sucrose may be used.

Potato is added to cultures in the form of 1-cm cubes cut from a raw russet potato and added to the medium before pressure sterilization.