

Specification Sheet

Alginate 5%

Product description	Alginate 5% is composed of sodium alginate (5% w/w) dissolved in the Reconstitution Agent M. Alginate 5% is a biodegradable biomaterial that works with a wide range of human cells and is crosslinkable with our Crosslinking Agent. For instructions of how to dilute to lower concentrations, see the <i>Dilution Protocol Alginate 5%</i> . For description on how to mix with cells, bioprint and crosslink, follow the <i>Mixing Cells Protocol Alginate</i> and the <i>Bioprinting Protocol Alginate 5%</i> .
Intended use	Biocompatible material for 3D bioprinting, <i>Research Grade</i> . For research use ONLY. Not intended for <i>in vitro</i> diagnostics or <i>in vivo</i> uses. Not intended for administration in humans or animals.
Product number	IKA325000503
Shelf life	Minimum 4 months, expiration date stated on package.
Storage and handling	Store at 4-8°C. DO NOT FREEZE. Avoid temperature fluctuations. Ensure that the bioink container is capped prior to storage to prevent drying.
Safety	Handle in accordance with good hygiene and laboratory safety practices. Read <i>Safety Data Sheet (SDS) Alginate 5%</i> for more information regarding ingredients and potential hazardous compounds.
Related documents	Dilution Protocol, Mixing Cells Protocol and Bioprinting Protocol as well as Safety Data Sheet can be downloaded from our website https://www.cellink.com/global/product/alginate-5/ . Scan the QR code below to reach the website.



Property	Specification	Method
<i>Appearance</i>	Amber gel	Visual inspection.
<i>Sterility</i>	Sterile	Tested for the presence of bacteria, fungi, and yeast.
<i>Viscosity</i>	140±40 Pa·s	Tested using rotational 20 mm plate-plate HR-2 TA Instruments Rheometer, assessed at 1 s ⁻¹ . Flow sweep parameters: shear rate from 0.001 s ⁻¹ to 100 s ⁻¹ , 25°C.
<i>pH</i>	6.5-7.4	Assessed with pH paper.