



Empty Hard Pullulan #00 Capsules
Safety Data Sheet
Technical Specifications
Intolerance Data

We don't just sell machines—
we provide service.

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1. Safety Data Sheet



1.1 Description

Product Name	Empty Hard Pullulan #00 Capsules
Product Code	5056206102852 (1000 count) 5056206116910 (5000 count) 5056206102869 (10,000 count) 5056206116927 (70,000 count)
Supplier	LFA Machines Oxford Ltd. Unit 4b, 26-27 Murdock Road Bicester, Oxfordshire OX26499 United Kingdom Tel: +44 (0) 1869 250 234

1.2 Ingredients/Identity Information

Composition per capsule part	Body represents about 60% of capsule weight
Name of ingredient(s) and function	Pullulan, structure
Body percentage (mg/body)	qsp 100% (73.2000)
Cap percentage (mg/cap)	qsp 100% (48.8000)
Total capsule (mg/capsule)	qsp 100% (122.0000)
E Number	E1204
CAS Number	9057-02-7

1.3 Hazards Identification



The European Regulations on Material Safety Data Sheets (MSDS), Classification, Labeling and Packaging of hazardous substances or mixtures do not apply to empty hard pullulan capsules.

This is based on the following interpretations of European law:

- The empty hard pullulan capsules supplied by LFA Machines correspond to the definition of 'Articles' as described in article 3 of the European Regulation (EC) No 1907/2006. An 'article' means an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition. As a result, empty hard pullulan capsules are neither substances or mixtures.
- Article 31 of the European Regulation (EC) No 1907/2006 requires that the supplier of a substance or mixture shall provide the recipient of a substance or preparation with a safety data sheet complied in accordance with Annex II. It is not required to provide safety data sheets for articles. As a result, LFA Machines does not provide safety data sheets for empty hard pullulan capsules.
- Article 33 of the European Regulation (EC) No 1907/2006 requires that any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of the substance. LFA Machines certifies that the empty hard pullulan capsules are free of substances meeting the criteria in Article 57 and identified in accordance with Article 59.
- The European Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures is not applicable for articles. As a result, this regulation is not applicable for empty hard pullulan capsules.

To the best of our knowledge, our products do not contain any contaminants or by-products known to the State of California that cause cancer or reproductive toxicity as listed under Proposition 65 Drinking Water and Toxic Enforcement Act.

1.4 Storage



LFA recommends capsules to be stored in the closed containers in which they are received. They should be kept in areas where the ambient temperature is 15°C to 25°C with a relative humidity of 35% to 65%. Following these environmental conditions will lead to 5 years shelf life for the capsules.

1.5 Additional Information

Defect Group	Critical Defects	Major Defects	Minor Defects
	Visual	Visual	Visual
AQL	0.01%	0.04%	0.25%
AOQL	0.029%	0.067%	0.36%

Additional Specifications		
Ingredient/Reference	EEC No	Function
Carrageenan (not to exceed 0.5%)	E407	Gelling agent
Potassium chloride (not to exceed 2.0%)	E508	Gelling agent

This advice is given by LFA Machines Oxford Ltd., who accept no legal liability for it. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Individuals working with chemicals should consider all chemicals to be potentially hazardous even if their individual hazards may be uncharacterized or unknown.

We confirm that the information above is sourced from the original manufacturers/suppliers.

2. Technical Specifications

2.1 Product Data



Characteristics	Specifications	Units
Identification of Pullulan	Positive	
Sulphated ash	Not more than 4	%
Disintegration time	Less than 15	min
Loss on drying	Between 10 and 14	%
Average weight	Between 115 to 129	mg
E. coli	Absence in 1 gram	
Salmonella	Absence in 10 grams	
Staphylococcus aureus	Absence in 1 gram	
Total aerobic microbial count	Less than 1000	cfu/g
Total yeast and mold count	Less than 100	cfu/g

2.2 Metals



Arsenic	<1.5 ppm
Lead	<1 ppm
Cadmium	<0.5 ppm
Mercury	<0.1 ppm
Cobalt	<5 ppm
Vanadium	<10 ppm
Nickel	<20 ppm

There are no nuts in this recipe, and there are no nuts on site. However, we cannot guarantee that the raw materials entering the site are nut free.

3. Intolerance Data

3.1 Intolerance Data Table



Free from all animal products (beef, pork, poultry, or other)	YES
Free from bovine products or derivatives by using hormones to increase milk yield in cows	YES
Free from bone meal	YES
Free from peanuts and peanut derivatives (including possible cross contamination)	YES
Free from other nut and nut derivatives	YES
Free from nut derived oil	YES
Free from sesame seeds and sesame seed derivatives	YES
Free from poppy seeds and poppy seed derivatives	YES
Free from sunflower seeds and sunflower seed derivatives	YES
Free from other seeds and seed derivatives	YES
Free from milk and milk derivatives	YES
Free from egg and egg derivatives	YES
Free from cereals containing gluten (wheat/rye/oats/barley/spelt/kamut or their hybridized strains) and derivatives	YES
Free from soya and soya derivatives	YES
Free from maize and maize derivatives	YES
Free from corn and corn derivatives	YES
Free from lupin and lupin derivatives	YES
Free from yeast and yeast derivatives	YES
Free from cotton seeds (flour) and cotton seed derivatives	YES
Free from rice and rice derivatives	YES
Free from mustard and mustard derivatives	YES
Free from celery and celery derivatives	YES
Free from celeriac and celeriac derivatives	YES
Free from fruit and fruit derivatives	YES
Free from vegetable and vegetable derivatives	NO (tapioca)
Free from carrot and carrot derivatives	YES
Free from legumes/pulses	YES



Free from fish and fish derivatives	YES
Free from crustaceans and/or molluscs and their derivatives	YES
Free from additives	YES
Free from added salt	YES
Free from added sugar	YES
Free from antioxidants	YES
Free from artificial glutamates	YES
Free from aspartame	YES
Free from Azo and coal tar dyes	YES
Free from benzoates (E210/E219)	YES
Free from BHA/BHT (E320/E321)	YES
Free from caffeine	YES
Free from cinnamon	YES
Free from cocoa	YES
Free from colors (artificial/nature identical/natural/smoked)	YES
Free from dextrose	YES
Free from dioxins	YES
Free from ethanol	YES
Free from ethylene oxide	YES
Free from flavorings (artificial/nature identical/natural/smoked)	YES
Free from garlic	YES
Free from gelatine	YES
Free from glutamates (E620 to E625)	YES
Free from histamine	YES
Free from hickory	YES
Free from honey	YES
Free from lactose	YES



Free from latex	YES
Free from MSG (added and naturally occurring E621)	YES
Free from nucleotides (E627, E630, E631. E635)	YES
Free from polyols	YES
Free from preservatives	YES
Free from starch products (including maltodextrin)	NO (produced from starch by <i>Aureobasidium pullulans</i>)
Free from sorbic acid (E200, E203)	YES
Free from sulphur dioxide and sulphites at levels above 10 mg/kg or 10 mg/liter express as SO²	YES
Free from sweeteners	YES
Free from vanillin	YES
Suitable for diabetics	YES
Suitable for Celiacs	YES
Suitable for Ovo-Lacto Vegetarians	YES
Suitable for Vegans	YES
Kosher Certified	YES
Halal Certified	YES



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