

Probiotic cream with Gelot™ 64 - DHO 1268

Phase	Ingredient	Chemical name	Properties	% (W/W)
A	Gelot™ 64	Glyceryl monostearate, PEG-75 stearate	O/W emulsifier	3.00
	Emulcire® 61 WL 2659	Cetyl alcohol, ceteth-20, steareth-20	Co-emulsifier	3.00
	Cetyl alcohol	Cetyl alcohol	Thickening agent	3.00
B	Labrafil® M 1944 CS	Oleoyl polyoxyl-6 glycerides	Emollient, O/W surfactant	2.00
	Mineral oil	Mineral oil	Emollient, Oil	2.00
	Demineralized water	-	Aqueous phase	81.85
	Sorbic acid	Sorbic acid	Preservative	0.10
	Methyl paraben sodium salt	Methyl paraben sodium salt	Preservative	0.05
C	Lyophilized probiotics	Lyophilized probiotics	Active	5.00
				100.00

Manufacturing process

Weigh and heat phase B to 75-80°C
 Disperse phase C into phase B under moderate stirring (350 rpm)
 Heat separately aqueous (B) and oily (A) phases to 75-80°C.
 Pour phase B into phase A under moderate agitation (500 rpm).
 Maintain the stirring for 5 minutes
 Then cool slowly until 25°C while stirring.

Properties

Beige cream
 pH= 5.6
 Viscosity (50s⁻¹ at 25°C) = 1630 mPa.s
 Stable 12 months at 25°C