

Caste Determination

Food Type	Gland	Composition
White	Mandibular	High in sugars especially glucose Pantothenic acid Biotin Other proteins
Clear	Hypopharyngeal	Protein and sugars
Yellow	-	Pollen (protein)

Factor	Queen	Worker
No of feeding visits during larval stage (average)	1200-1600	140
Type of food	Royal Jelly	Brood Food
Days 1-2	Mostly white	20-40% white 60-80% clear
After Day 2	50% white 50% clear	Almost 100% clear Small amount of yellow (up to 5%)

NOTE - many sources fail to provide the actual nutritional content of the white/clear/yellow elements and only provide this for royal jelly and brood food which are varying mixtures of these so it is difficult to combine the information between the two groups