

Narwhal in the Earth Note-by-Note

PRESENTED BY **ZACK WU**



T
DUBLIN
TECHNOLOGICAL
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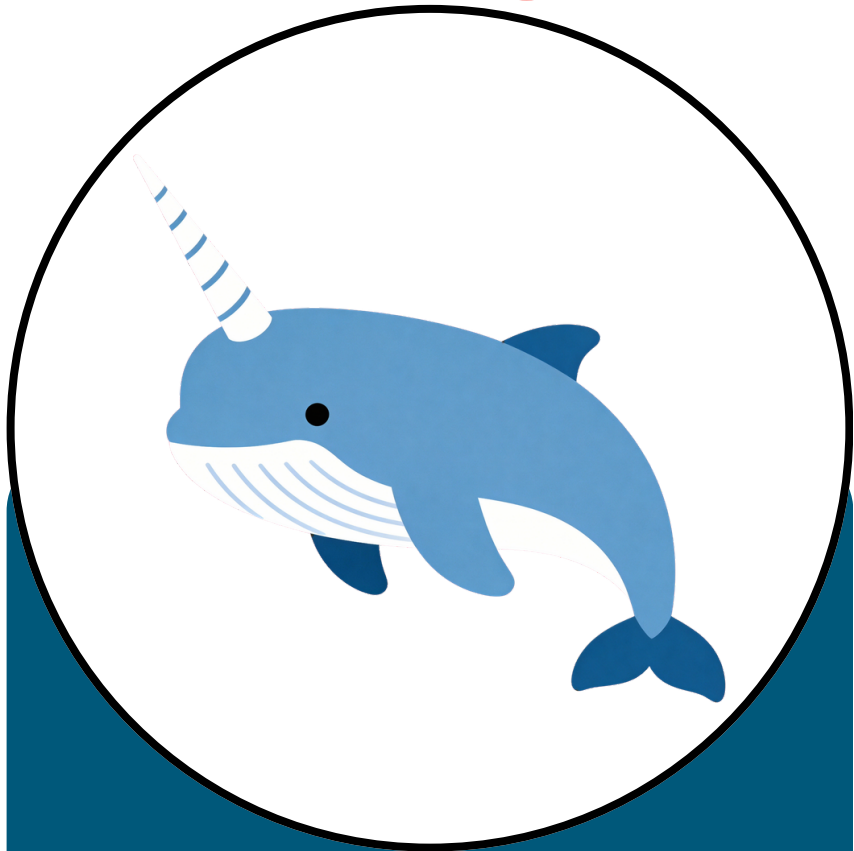
FIPDes
Food Innovation & Product Design



Ingredients

(Gram)

25g



Black Narwhal

Isomalt	150
Water	20
Activated Charcoal	2

100g



Cola Ocean Jelly

Water	300
Erythritol	15
Gelatine Leaf	7.5
Cola Flavouring	0.5
Blue Colouring	2

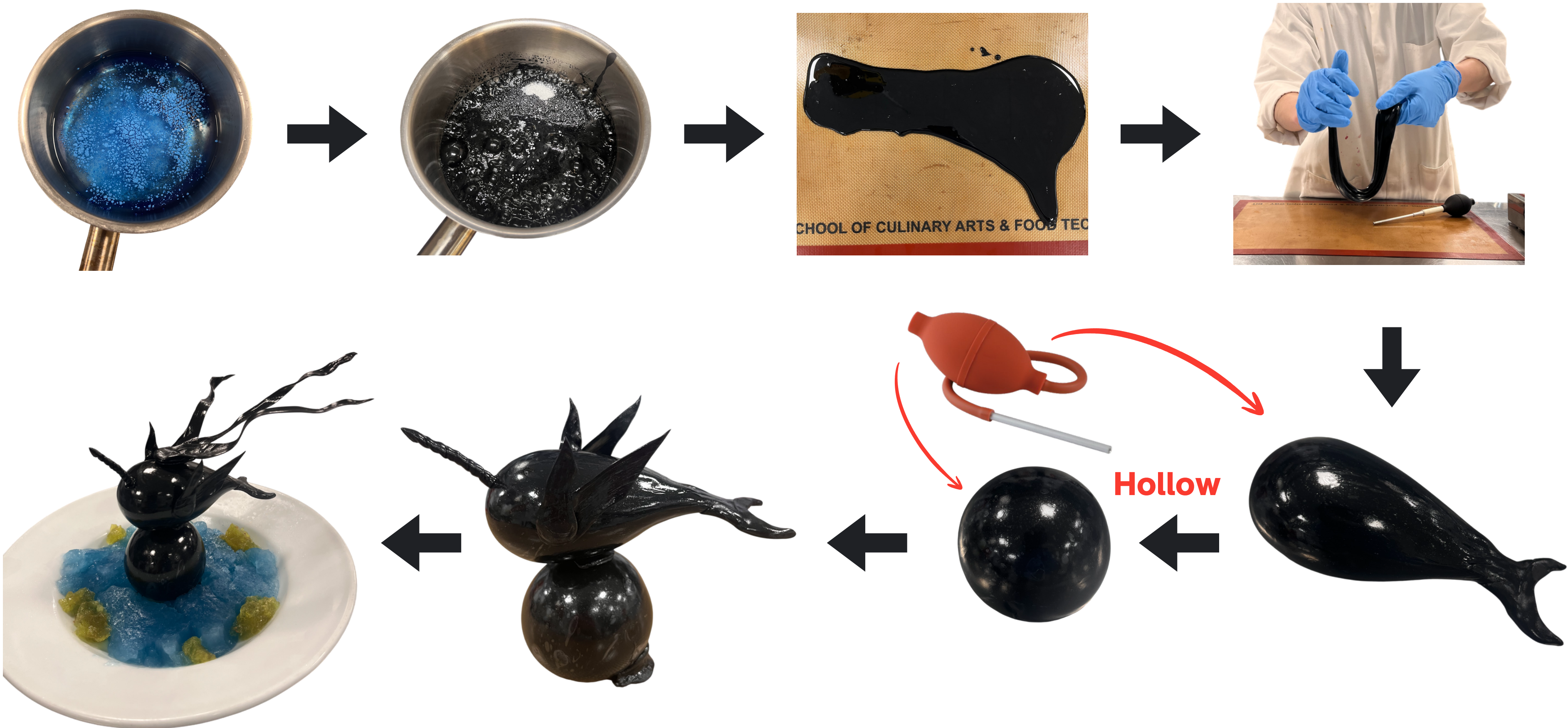
25g



Passion Fruit Forest Jelly

Water	300
Citric Acid	1
Gelatine Leaf	7.5
Passion Fruit Aroma	0.5
Green Colouring	2

Production Process



Lower Calories

Narwhal in the Earth

 133 kcal/ 100g

EU Label values per 100g				
	PER 100G	%RI	PER 150G SERVING	%RI
Energy(Kj)	562 kJ	7%	843 kJ	10%
Energy(kcal)	133 kcal	7%	200 kcal	10%
Fat	0 g	0%	0 g	0%
of which saturates	0 g	0%	0 g	0%
Carbohydrate	40 g	15%	59 g	23%
of which sugars	0 g	0%	0 g	0%
Fibre	1.1 g	4%	1.7 g	7%
Protein	1.7 g	3%	2.5 g	5%
Salt	0.02 g	0%	0.03 g	1%

HARIBO Goldbears

343 kcal/ 100g



60%

Lower Cost

Narwhal in the Earth

€0.98/ 150g/ serving

Average dessert price at a sit-down restaurant



Dublin

€12-14

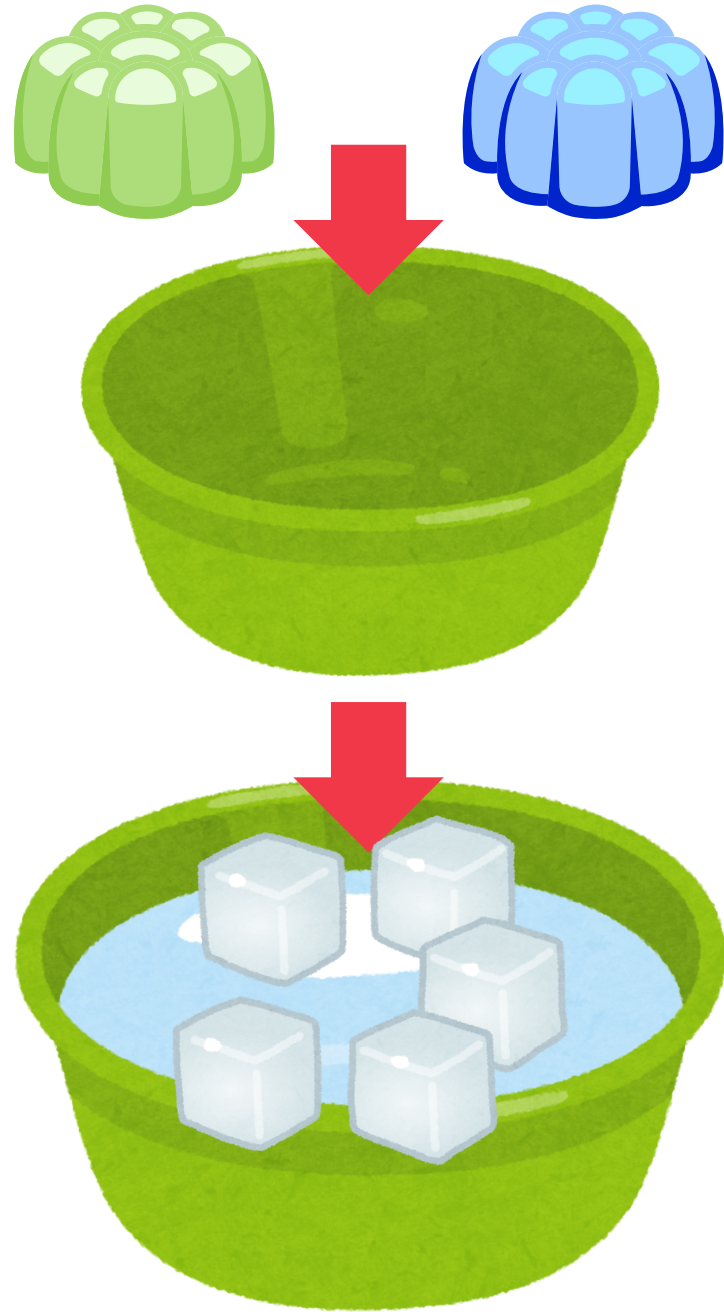
Paris

€10-15

Black Narwhal				Weight/ piece	Black Narwhal					
Ingredients	g	Row Labels	Total - g	25 g	Ingredients	Qty	UoM	Cost	Cost/gram	Cost/ Usage
Isomalt	150	Isomalt	87.21%	21.802g	Isomalt	2000	gram	21	0.011	0.229
Water	20	Water	11.63%	2.907g	Water	-	-	-	-	-
Activated Charcoal	2	Activated Charcoal	1.16%	0.291g	Activated Charcoal	300	gram	11.8	0.039	0.011
		Subtotal	100.00%							
Cola Ocean Jelly				Weight/ piece	Pistachio Filling					
Ingredients	g	Row Labels	Total - g	100 g	Ingredients	Qty	UoM	Cost	Cost/gram	Cost/ Usage
Water	300	Water	86.96%	86.957g	Water	-	-	-	-	-
Erythritol	15	Isomalt	5.80%	5.797g	Isomalt	2000	gram	21	0.011	0.061
Gelatine Leaf	7.5	Erythritol	4.35%	4.348g	Erythritol	250	gram	6.49	0.026	0.113
Isomalt	20	Gelatine Leaf	2.17%	2.174g	Gelatine Leaf	50	gram	4.21	0.084	0.183
Cola Flavouring	0.5	Blue Colouring	0.58%	0.58 g	Blue Colouring	100	gram	42.2	0.422	0.245
Blue Colouring	2	Cola Flavouring	0.14%	0.145g	Cola Flavouring	5	gram	2	0.400	0.058
		Subtotal	100.00%							
Raspberry Filling				Weight/ piece	Raspberry Filling					
Ingredients	g	Row Labels	Total - g	25 g	Ingredients	Qty	UoM	Cost	Cost/gram	Cost/ Usage
Water	300	Water	96.46%	24.116g	Water	-	-	-	-	-
Citric Acid	1	Gelatine Leaf	2.41%	0.603g	Gelatine Leaf	50	gram	4.21	0.084	0.051
Gelatine Leaf	7.5	Green Colouring	0.64%	0.161g	Green Colouring	20	gram	0.2	0.010	0.002
Passion Fruit Aroma	0.5	Citric Acid	0.32%	0.08 g	Citric Acid	4	gram	0.08	0.020	0.002
Green Colouring	2	Passion Fruit Aroma	0.16%	0.04 g	Passion Fruit Aroma	50	gram	37.12	0.742	0.030
		Subtotal	100.00%							
								SUM	0.984	

Reduction in Production Time

Jelly



4mins

Narwhal



8mins

Assembling



2mins

+

+

Thank you!

Lower Costs

**€0.98/
Serving**

Lower Calories

60%↓



**Reduction in
Production Time**

**Max.
14 mins**

Flavorful

**Cola &
Tropical fruit**