

FAQ_0076: How to automatically calculate Batch Size in Formula Master for dry syrup?

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Product Code: BQE225 (30 gm filling in 100 ml bottle and Label claim is per 5ml)

In formula master:

Factor:

100 ml Syrup	30 gm Actual filling
5 ml Label claim	(?)

$$\frac{5 \text{ ml} \times 30 \text{ gm}}{100 \text{ ml}} = 1.5 \text{ gm}$$

So 5 ml = 1.5 gm
Then 1 ml = 1.5/5
= 3/10
= 0.3 gm

Factor 1: Label claim unit (1 ml) to Actual filling unit (gm)

Changing per ml to per actual filling is

$$1 \text{ kg} = 1000 \text{ gm}$$

Batch UOM = Actual filling in gm

$$\text{Factor} = 0.3 \times 1000 = 300$$

Factor 2: Conversion between Mg to Kg

Batch Size = Avg.Wt. X Batch Size X Factor 1 X Factor 2

Factor (Per 1 ml to gm is 0.3 gm)

Factor 1 (Batch UOM to actual filling unit) = 1000 gm

Calculation for conversion factor = 0.3 gm X 1000 = 300 gm

Factor 3: Avg. Wt. UOM to Batch UOM

$$(\text{Mg to kg}) = 0.000001 \text{ kg}$$

$$\begin{aligned} \text{Batch Size} &= \text{Avg.Wt.} \times \text{Batch Size} \times \text{Factor (1)} \times \text{Factor (2)} \\ &= 90 \text{ kg} \times 1499.996 \text{ mg} \times 300 \text{ gm} \times 0.000001 \text{ kg} \\ &= 40.499892 \text{ kg} \end{aligned}$$