BioBench

AGAROSE TABLETS

Cat No.	T 0101
Size	100 × 0.2 g

Other Sizes available

#T0102	250 × 0.2 g
#T0105	100 × 0.5 g

Features

- DNase/RNase-free
- Fast and convenient
- Greater gel-to-gel consistency
- Gels as low as 0.5% are feasible
- Organic Solvent Free
- Safer and cleaner to use than conventional agarose powder

Description

Biobench Agarose Tablets are designed to provide a cleaner, safer, no-mess environment and more convenience than powdered agarose. Each tablet contains a pre-determined amount of agarose (0.2g) eliminating the need to weigh out loose agarose powder. Tablets are manufactured with low electro endosmosis, multi-purpose, standard melting point agarose that yields high resolution sharp DNA bands with high clarity and low background. Unlike traditional agarose powder that relies heavily on the use of toxic organic solvents, Biobench Agarose Tablets are manufactured using innovative Organic Solvent Free manufacturing process that is greener and more environment friendly.

Protocol

1. Simply add the appropriate number of tablets to electrophoresis buffer based on table to prepare your desired gel percentage.

2. Before heating soak tablets in a buffer for 5 minutes until tablets completely break into fine-particle slurry. Swirl the slurry to break up any remaining particles.

Important Note:

- Do not microwave the tablet in the buffer immediately, as this will cause the formation of smaller insoluble pellets.

• The room-temperature incubation step, prior to heating, is important to achieve a homogeneous mix

	1 Tablet	*2 Tablets*	*3 Tablets*	*4 Tablets*	*5 Tablets*
Gel %	**Buffer Volume(ml)**				
0.80%	25	50	75	100	125
1.00%	20	40	60	80	100
1.20%	17	33	50	67	83
1.50%	13	27	40	53	67
1.60%	13	25	38	50	63
1.80%	11	22	33	44	56
2.00%	10	20	30	40	50

3. Heat the solution in a microwave on high power setting until it starts to boil, allow boiling for ~ 30 seconds.

4. Remove the flask from microwave, swirl gently to dissolve any remaining agarose particles.

5. Reheat on high power until the solution is clear and all particles are dissolved.

6. Cool the solution to approximately 60°C before pouring

6.Pour the gel.

If a boiling water bath is used:

To melt Tablet Agarose, simply heat the slurry in a boiling water bath. Bring the solution to a boil and allow it to boil for 5 minutes stirring continuously until agarose dissolves completely.

Recommended agarose percentage for DNA separation agarose

DNA size range (Kb)	**5-60**	**1-20**	**0.8-10**	**0.5-7**	**0.4-6**	**0.2-4**	**0.1-3**
concentration	0.30%	0.6%	0.7%	0.9%	1.2%	1.5%	2.0%

Storage conditions

Store at room temperature, away from light and moisture