



Low melt agarose

Data sheet

Order No.: BS 20.47.025	25g
Order No.: BS 20.47.100	100g
Order No.: BS 20.47.250	250g

(For research and *in vitro* application only)

Batch No.:

Best before:

Appearance: homogeneous powder

Colour: white

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Low melt agarose

Description

The Bio&SELL Low melt agarose is a highly pure, clear special agarose with a low melting temperature and a separation range from 0.8 to 25 kbp. Suitable for preparative separation at all common "in-gel works".

Analytical specification

Gel strength (1,0%):	$\geq 200 \text{ g/cm}^2$
Gelling temperature (1,5 %):	$\leq 31 \text{ }^\circ\text{C}$
Elektroendosmosis (-mr)	$\leq 0,140$
Sulfate content	$< 0,10 \%$
Amount of water	$\leq 10,0 \%$
DNA-Binding	not detectable
DNase- a. RNase activity	not detectable

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Preparation of the agarose:

- ▶▶▶ **Note:** For 100 ml of a 1% agarose gel prepare 1 g of agarose in 100 ml electrophoresis buffer.

Method 1: Microwave

1. Add buffer (approximately 90% of final volume) and a magnetic stir bar in a flask that can accommodate two to four times the final gel volume.
2. Place the flask on a magnetic stirrer and slowly intersperse the agarose. Stir fast at all time to avoid clumping.
3. Remove the stir bar.
4. Add buffer until the desired final volume is reached.
5. Weigh the flask. Heat the flask in the microwave (600 W) for 1 - 2 minutes. Take out the flask from the microwave.
Attention: boiling retardation possible! Carefully shake the flask to resuspend agarose which has not been dissolved yet.
6. Again, heat the agarose at intervals of 5 - 10 seconds or until the solution boils. Make small pauses between the heating for 10 - 15 seconds. Meanwhile shake the flask carefully. Continue until the agarose is completely dissolved.
7. Again, weigh and balance lost weight by the addition of warm distilled water. Mix the solution gently.
8. Let the solution cool down at room temperature until a temperature of 50 – 60 °C is reached.

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Method 2: Boiling water bath

1. See method 1: 1-2 and 4
2. Weigh the flask, put the agarose suspension in a water bath with constant stirring until the solution is boiling.
3. Leave the flask in the water bath for further 15 - 20 minutes or heat until the agarose is completely dissolved.
4. Switch off the stirrer and leave the flask for 15 minutes in a water bath.
5. Weigh and balance lost weight by the addition of warm distilled water. Mix the solution gently.
6. Let the solution cool down at room temperature for 15 - 20 minutes until a temperature of 50 – 60 °C is reached.

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Technische Daten

Gel strength of agarose: Die gel strength, specified in g/cm² at a given agarose concentration indicates the stability of the completed gel.

Gelling temperature of agarose: gelation range of temperature in which the gel reach its end consistency.

Elektroendosmosis of agarose: The smaller the elektroendosmosis the better the agarose. A small value for elektroendosmosis (< 0,12) characterize a high quality agarose, which is most suitable for gel electrophoretic labour.

Content of sulphate of agarose: A small content of sulphate indicates a high quality agarose.

Transport: at room temperature

Storage: at room temperature

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Further products which will interest you:

Bio&SELL products for cDNA synthesis

The Bio&SELL SCRIPTUM One-step kits: obtaining high-quality cDNA fast and effective

**Bio&SELL
SCRIPTUM Standard Kit**

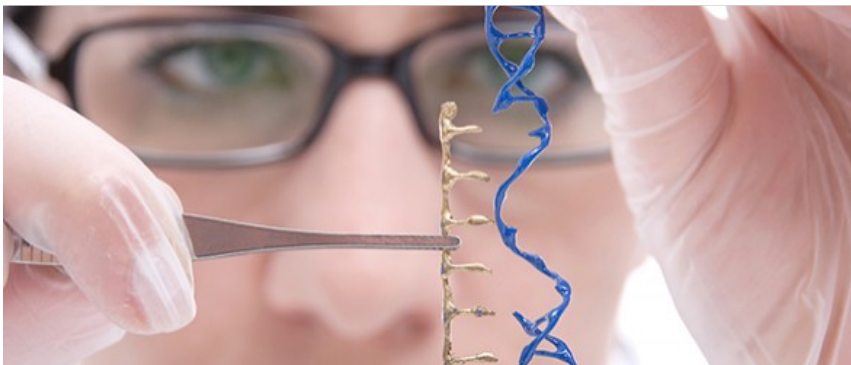
Combines the specific reverse transcription with the subsequent PCR fast and easy in only one tube.

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SCRIPTUM High Precise**

cDNA synthesis extreme fast and precise because of the Taq-DNA-Polymerase with proof-reading-activity

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For the synthesis of first-strand cDNA: by highly structured and long cDNA fragments, an extreme sensitive and specific RT-PCR and DNA labeling.



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“ready to use”:**

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- effective
- low priced

www.bio-sell.de/molekularbiologie/reverse-transkription.html

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Other products that might interest you:

Bio&SELL DNA-Markers and DNA-Ladders

The Bio & SELL DNA-Markers and DNA-Ladders are characterized by sharp bands and excellent resolution in every size range.

Bio&SELL

100 bp DNA- Ladder including loading buffer

Suitable for the size determination of double-stranded DNA in the range between 100 bp and 1,500 bp.

1 x 50ug for 46,90 EUR plus MwSt.

Bio&SELL

1 kb DNA-Ladder including loading buffer

Suitable for sizing double-stranded DNA in the range between 250 bp and 10 kb.

1 x 50ug for 46,90 EUR plus MwSt.

bp	Größe (bp)	DNA-Gehalt (ng/μl)
1000	1.000	190
900	900	170
800	800	150
700	700	90
600	700	110
500x2	500 (x 2)	130
400	400	80
300	300	40
200	200	40
100	100	20

Bio&SELL DNA-Markers:

**Sharp in every size
range!**

www.bio-sell.com/molecular-biology/dna-marker-and-ladders.html

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