

**QUALITY CERTIFICATE**

Product name: PROCAINE HYDROCHLORIDE  
Quality: Ph.Eur.11.0.  
Package: 50 g  
Formula:  $C_{13}H_{20}N_2O_2 \cdot HCl$   
Rel. mol. weight: 272,77  
Lot No.: GD6058598  
Manufacturing date: 06.2022.  
Expiry date: 05.06.2026. (DMY)  
Anal. No.: 15286H58598

|                          | <b>REQUIRED</b>   | <b>MEASURED</b>          |
|--------------------------|---|--------------------------|
| Appearance:              | white or almost white crystalline powder or colourless crystals | white crystalline powder |
| Identity (IR)            | identical   | identical                |
| Identification test 'D'  | identical   | identical                |
| Identification test 'E'  | identical   | identical                |
| Identity (melting point) | 154-158 °C  | 156,8 °C                 |
| Assay                    | 99,0-101,0 %  | 99,7 %                   |
| Appearance of solution   | passes test   | passes test              |
| pH                       | 5,0-6,5   | 5,655                    |
| Related substances (TLC) | passes test   | passes test              |
| Heavy metals (Pb)        | max.5 ppm   | <5 ppm                   |
| Loss on drying (105°C)   | max.0,5 %   | 0,05 %                   |
| Sulphated ash            | max.0,1 %   | 0,05 %                   |

**The Product complies with the requirements of Ph.Eur.11.0.**

Kiállítva: Halásztelek, 2023.07.06.

  
Nagy Balázs

minőségbiztosítási vezető

**Molar Chemicals Kft.**  
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