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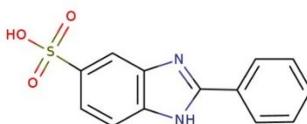
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Trade registration nr. 50769421 Chamber of Commerce Utrecht

Technical Data Sheet

10 March 2023

Product name:	PBSA
Product Form:	Solid
Chemical name:	2-phenyl-1H-benzimidazole-5-sulphonic acid
Synonym:	UV-510; NeoHeliopan(R) Hydro; Phenylbenzimidazole sulfonic acid
CAS No:	27503-81-7
EINECS No:	248-502-0
Molecular formula:	C ₁₃ H ₁₀ N ₂ O ₃ S
Molecular weight:	274.30
Structure formula:	



Chemical Specification

Appearance	White to off-white powder
Odor	Faintly characteristic odor
Identification (IR)	Infrared absorption <197K&197A>
Identification (HPLC)	Retention time to standard
Specific absorption (1%, 1cm @ 302nm)	920 -990
Loss on drying (%)	2.0 max.
Assay (HPLC, %)	98.0 – 102.0
Microbiology	
Total aerobic micro count (cfu/g)	100 max.
Total yeast & mold count (cfu/g)	100 max.
Pathogens	
Escherichia coli (in 1g)	Negative
SalmoOnella (in 1g)	Negative
Candida albicans (in 1g)	Negative
Staphylococcus aureus (in 1g)	Negative
Pseudomonas aeruginosa (in 1g)	Negative

Heavy metals	
Nickel (ppm)	1 max.
Mercury (ppm)	1 max.
Antimony (ppm)	1 max.
Lead (ppm)	5 max.
Arsenic (ppm)	2 max.
Cadmium (ppm)	1 max.
Cobalt (ppm)	1 max.
Chrome (ppm)	1 max.
Total (ppm)	10 max.

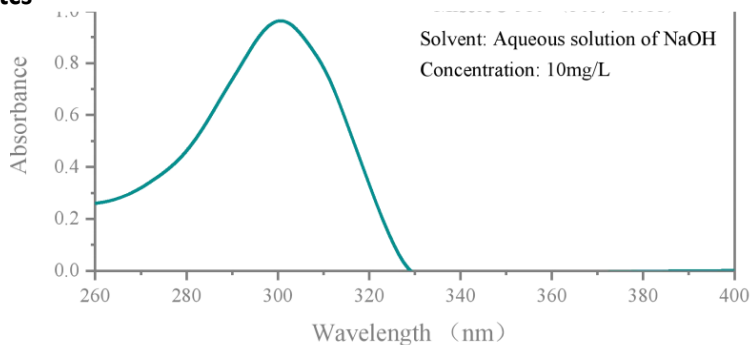
Residual solvents

Meets the requirements of ICH/USP

Packing: in 25kgs net drum, 18drums(450kgs net) on pallet

Shelf life: 24months

UV Characteristics



Features and application:

PBSA is insoluble in water. After conversion to a salt, the product is soluble in water and mixture of water and ethanol. It can be used in suncare and cosmetic preparations when converted into a salt. There is synergistic effect when PBSA is combined with other filters, such as BMDBM, BEMT etc.