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# Specification

<b>Product</b>	<b>Magnesium sulfate heptahydrate pure EP, USP</b>
<b>Brand</b>	Labochem
<b>Product number</b>	LC-4501 (revised)
<b>Synonym(s)</b>	Epsom salt, Bitter salt
<b>Formula</b>	$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$
<b>Molecular weight</b>	246.48 g/mol
<b>CAS number</b>	10034-99-8
<b>Storage</b>	below 25°C
<b>Retest period (months)</b>	60
We herewith confirm that this product meets the requirements of the European Pharmacopoeia (EP) and the US Pharmacopoeia (USP).	
<b>Parameter</b>	<b>Specification</b>
Assay (complexom.; calc. on dried subst.)	99.0 - 100.5 %
Identity	passes test
Appearance of solution	passes test
pH (5 % in water)	5.0 - 8.2
Acidity or alkalinity	conforms
Chlorides (Cl)	max. 0.014 %
Heavy metals (as Pb)	max. 0.001 % (revised)
As	max. 0.0002 %
Ca	max. 0.01 %
Fe	max. 0.002 % (revised)
Se	max. 0.001 %
Zn	passes test
Loss on drying (450 °C)	48.0 - 52.0 % (revised)
Residual solvents (ICH Q3C)	Excluded by production process

Einhausen, 06.02.2020 (revised)